

About ASME

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Core Values

In a rapidly changing global technological environment, ASME's Mission, Vision and Core Values remain constant.

Our Vision: To be the premier organization for promoting the art, science and practice of mechanical and multidisciplinary engineering and allied sciences to our diverse communities throughout the world.

Our Mission: To promote and enhance the technical competency and professional well-being of our members, and through quality programs and activities in mechanical engineering, better enable its practitioners to contribute to the well-being of humankind.

In performing its mission, ASME continues to adhere to these core values:

- Embrace integrity and ethical conduct
- Embrace diversity and respect the dignity and culture of all people
- Nurture and treasure the environment and our natural and man-made resources
- Facilitate the development, dissemination and application of engineering knowledge
- Promote the benefits of continuing education and of engineering education
- Respect and document engineering history while continually embracing change
- Promote the technical and societal contribution of engineers

For more information see: http://www.asme.org/about/Vision_Mission_Core_Values.cfm

Strategic Directions

ASME's strategic focus has five key market directions, with cross-sector strategic initiatives underway in support of them. These are:

- *Early Career Engineers* – ASME is adapting its portfolio of services to fit the unique needs of engineers who are in the age group of 20 to 39.
 - Strengthen the opportunities for early career engineers to volunteer in ASME;
 - Build “first-in-class” career development resources;
 - Expand opportunities for early career engineers to generate and receive technical content;
 - Work with employers/industry to reach early career engineers;
 - Focus on digital content and delivery; and
 - Segment the early career market and implement customized marketing strategies.

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- *Industry* – ASME has identified six industry sectors that represent new growth areas for members: pressure technology, energy, bio-pharmaceutical, waste management, homeland security and computer hardware and software.
 - Package content and services around these sectors, including publications, training, and codes and standards;
 - Seek out working partnerships with major corporate customers through its ASME Solutions Initiative, a resource that provides industry-specific tools required for success in today's new and expanding global market. For more information see: <http://www.asmesolutions.org/>;
 - Establish Global Management for Engineering and Technology, a global training program offering learning solutions to current global engineering issues in engineering and technology management; and
 - Establish Center for Engineering Entrepreneurship and Innovation.
- *Government* – ASME continues to be a valuable resource for the agencies and departments of the U.S. government.
 - Identify the issue priorities of the Society in the ASME Public Policy Agenda;
 - Identify activities and programs – such as the [Federal Government Fellowships](#), [Washington Internships for Students of Engineering](#) (WISE), and Congressional Briefings – to prepare and enable the Society's members to provide all levels of government with essential information and guidance;
 - Publish the ASME Capitol Update, a weekly electronic newsletter focused on legislative and regulatory news of interest to the engineering community (free to ASME members);
 - Issue more than 25 position statements annually, to assist policy makers who are confronted with decisions on a wide variety of technical issues; and
 - Perform peer and project reviews of Federally-funded research programs.
- *Globalization* – ASME is developing a global market for its products and services.
 - Expand ASME's on-the-ground presence in China and Europe
 - A service office has been operating in Brussels since 2005
 - The ASME Asia-Pacific LLC has established an office in Beijing;
 - Establish an on-the-ground presence in India
 - A service office was established in Delhi in November 2007;
 - Create new Student Sections in China and India;
 - Add Chinese language versions of selected pages on asme.org; and
 - Create new global products and marketing.
- *New revenue generators* – ASME is seeking ways to grow revenue through the creation of new programs and services.
 - Engineering Management Certification Institute;
 - Global Management for Engineering and Technology; and
 - A new enterprise Marketing & Sales unit.

Keep your finger on the pulse of these and other ASME activities by reading ASME Connections and Inter-Comm. ASME Connections highlights new initiatives that reflect the momentum of ASME's new strategies and objectives, and the Inter-Comm newsletter provides an update on events and activities throughout ASME.

ASME Connections: <http://www.asme.org/About/Connections/>

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Inter-Comm: <http://www.asme.org/NewsPublicPolicy/Newsletters/InterComm/>

Organization

ASME has adopted a cross-functional matrix, or horizontal, business model ([organizational chart](#)), and the Society's organizational framework consists of five parallel sectors which work collaboratively on cross-sector projects as well as produce and conduct the diverse and complex array of products and services for which our Society has earned its solid reputation. To maximize the potential of our matrix business model, ASME is investing in staff training for cross-sector projects, has identified strategic priorities that are cross-Sector in nature, and has created a support structure which now includes an enterprise-wide marketing and sales function.

ASME's sectors are: Codes and Standards, Knowledge and Community, Centers, Institutes, and Strategic Management, and their activities are described below. The Volunteer Orientation and Leadership Training (VOLT) Academy and the Honors and Awards Program both serve volunteers in all sectors.

[Codes and Standards Sector](#) - ASME is one of the older standards-developing organizations in the world, with its first standard addressing measurement of steam boiler efficiency issued in 1884. It has approximately 500 codes and standards that cover such areas as pressure equipment, nuclear power plant components, piping and pipelines, elevators, and engineering drawings. Supervisory and advisory boards manage over 700 committees with 3,800 volunteer members, including over 300 members from outside of North America. The supervisory boards are responsible for pressure technology, nuclear installations, safety standards, dimensional standardization and performance test codes, new development (for new products that do not fall within the scope of the other supervisory boards), and conformity assessment. ASME codes and standards are regularly revised to maintain technical and market relevance, and new ones are constantly created to address the needs of stakeholders, primarily industry and government. The ASME Standards Technology LLC may develop and provide relevant technical data for consideration during ASME's standards development and revision process. A request for a code or standard may come from individuals, committees, professional organizations, government agencies, industry groups, public interest groups, or from an ASME division or section. The request is referred to the appropriate supervisory board for consideration, and the board either assigns it to an existing standards committee, or forms a new one.

The standards committees are composed of engineers and other qualified individuals with knowledge and expertise in the particular field, who agree to follow ASME's [Policy on Conflict of Interest](#) and the [Engineer's Code of Ethics](#). They represent users, manufacturers, consultants, universities, testing laboratories, insurance interests and government regulatory agencies. Committee members must be chosen such that no single group is allowed to dominate. In order to enhance global relevance of ASME's standards, additional options for committee membership have been implemented to facilitate participation by qualified individuals outside of the U.S. and Canada. The Delegate position allows an individual to represent a group recognized outside of the U.S. and Canada that can meet in its own country and discuss and comment on ASME's standards in its native language. The International Interest Review Group of the Boiler and Pressure Vessel Committee encourages representation of national agencies that have accepted at least one section of ASME's Code as satisfying their regulatory requirements.

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Committee meetings must be open to the public, and voting procedures must ensure that the group reaches consensus. These guidelines are issued by the American National Standards Institute (ANSI), the umbrella organization created to coordinate the more than 200 volunteer organizations in the U.S. that develop standards. If a materially interested party believes that due process was not observed, then under ANSI rules he or she may appeal to the standards committee, the supervisory board and, ultimately, to the ASME Board on Hearings and Appeals.

When a committee completes its work, the availability for public review and comment of the proposed standard is announced on the ASME Web site, and submitted for approval to the supervisory board and to ANSI. The committee must respond to all comments that are submitted during the public review period. When all considerations have been satisfied, the document is approved as an American National Standard, and published by ASME. Much of the voting process and resolution of comments is accomplished via C&S Connect, ASME's web-based electronic tool.

ASME's standards development procedures are consistent with the principles of international standards development, established by the World Trade Organization's Technical Barriers to Trade Committee. ASME standards are accepted for use in over 100 countries. Examples of ASME international standards are the Boiler and Pressure Vessel Code, the Bioprocessing Equipment Standard, and several Piping Codes.

Codes and Standards also administers a number of conformity assessment programs, where ASME will evaluate whether an organization or individual has demonstrated the capability of meeting the requirements of the relevant code or standard.

Codes and Standards works with the Continuing Education Institute to develop associated training material to enhance understanding of the application of a number of ASME's standards.

Codes & Standards in China and India

Code & Standards, including Conformity Assessment, is very committed to China and India.

ASME Asia Pacific, LLC was incorporated recently for the purpose of establishing and registering an office in Beijing, and an office in Shanghai is planned for the not too distant future. These offices will form the base of operations to advance the Society's growth in an area that the organization considers a key market for engineering services. In addition to promoting understanding and use of codes and standards programs in the growing market of China, the new limited liability company will be engaged in expanding the reach of the Society's engineering workforce short courses and training seminars throughout the region. It will also provide a means of strengthening collaboration with existing and new partner organizations.

ASME Codes & Standards continues in its role as lead organization of the Consortium on Standards and Conformity Assessment (CSCA) in Beijing. The other members of the Consortium include ASTM International, the American Petroleum Institute, and CSA America. All four members are world leaders in standards development.

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The primary aim of the consortium is to advocate the use of American-based international technical standards in China as well as promote the development of Chinese standards programs that are compatible with programs in North America. The consortium, with the aid of a U.S. Department of Commerce, International Trade Administration award, has enabled U.S.-based international standards developers to maintain a continuous presence in Beijing to build relationships and help the Chinese conform to World Trade Organization (WTO) rules on standards and trade.

Several of our more widely used Pressure Technology standards have been translated into Chinese (Mandarin), including ASME Nuclear Codes & Standards (NCS). The completion of the NCS translation was marked with a ceremony in September 2007 in The Great Hall of the People in Beijing. In attendance were Vice Premier Zeng Peiyan, ASME President Sam Zamrik, ASME Executive Director Virgil Carter, ASME Associate Executive Director June Ling and other Beijing and New York ASME and CSCA staff.

Codes & Standards has been concentrating on the energy sector in India for the last several years. We have collaborated with Indian government and private-sector oil and gas companies, and standards development and regulatory agencies including:

- The Bureau of Indian Standards (BIS)
- The Gas Authority of India (GAIL)
- Engineers India Limited (EIL)
- The Oil Industry Safety Directorate (OISD)
- The Quality Council of India (QCI)
- The Petroleum and Natural Gas Regulatory Board (PNGRB)
- Confederation of Indian Industries (CII)
- Indian Oil Corporation Ltd.
- Larsen and Toubro (L&T)
- Reliance Gas
- Bharat Petroleum Corporation Ltd.

Working closely with GAIL and BIS in an effort begun in August 2005, ASME was able to assist BIS in their determination to include, by reference, several ASME pipeline standards in BIS gas pipeline standards established in 2006. OISD had previously included reference to ASME standards in their oil pipeline standards. Codes & Standards is currently working with QCI and PNGRB to achieve similar results in the work they need to do to assist with the rapid expansion of India's energy infrastructure.

C&S has engaged Mr. Satish Chander, Additional Director General, Bureau of Indian Standards (Retired) as ASME Liaison for Codes and Standards in India. ASME C&S has been actively organizing workshops and conferences and recruiting delegates to C&S technical committees in India. Also, working together with the ASME International Petroleum Technology Institute, Pipeline Systems Division and Strategic Initiatives, we established the ASME India Conference Series and held our first conference in October 2007, the ASME India Oil and Gas Pipeline Conference. The conference, which included tutorials and a symposium, had more than 150 registered attendees and eight sponsors. Leadership from Indian government and industry in the pipeline sector, and standards and regulatory area were well represented among both the

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attendees and the program participants. The program brought together industry leaders, engineering professionals and policy makers from across India and the world. The opening plenary included a keynote address by Dr. Eric Anthony Jones, First Secretary (Economics), U.S. Embassy (Dept. of State).

Knowledge and Community Sector - The K&C Sector provides an organizational and management structure for over 800 member units, serving as a resource and platform for enabling the member units to:

- Form collaborative efforts;
- Share best practices;
- Provide forums for outreach;
- Focus programs on critical issues (students, early career engineers, industry, emerging technologies, etc.); and
- Develop new business opportunities.

The Knowledge and Community (K&C) Sector is made up of a collection of member units that are aligned both geographically and technically. These units comprise technical divisions, sections, student sections, affinity groups and committees, self-forming groups and communities of practice. Their purpose is to stimulate the development, acquisition and dissemination of technical knowledge, provide opportunities for engineering practitioners to connect and to exchange ideas, and promote the advancement and professional development of our members. These units are all volunteer and member driven and, through their activities and programs, play a key role in furthering ASME's goals and objectives. The K&C Sector is managed by a board comprised of:

- A Senior Vice President;
- 3 Operational Vice Presidents (Technical, Global and Affinity Communities);
- 2 Functional Vice Presidents (Programs & Activities and Financial Operations);
- 2 Committee Chairs (Communications and Representation & Governance); and
- Managing Director (Staff position without vote).

The Center for Research & Technology Development (CRTD), a part of K&C, plans and manages collaborative research projects defined by ASME members to meet the needs of the mechanical engineering profession. The CRTD, as a neutral party, is able to bring together key players from industry, government, and academia and leverage research dollars. The CRTD has issued almost 90 research reports within the last 20 years. The CRTD consists of 11 research committees, two ad hoc committees, and two peer-review oversight committees.

Centers Sector - The Centers Sector is responsible for the mission-focused activities such as engineering education, leadership development, promotion of diversity and inclusion, professional development, professional practice, encouragement of ethical practice, and public awareness of engineering. There are four individual Centers:

Public Awareness, which serves to inspire the future innovations and celebrate the past achievements of the mechanical engineering profession. The Center for Public Awareness consists of: the Committee on History & Heritage; the Committee on Pre-College Education; and the Committee on Strategic Communications.

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Professional Practice, Development and Ethics (CPDPE), which assists the Society in meeting the professional, ethical, and developmental needs of its members. The CPDPE has supervision of those activities related to student development, early career development, and professional development. In addition, CPDPE supports development of ethics standards and reviews, facilitates society leadership development, and works with the Old Guard Committee to enhance and support their mission with students and young engineers. Five Committees make up this Center: the Old Guard Committee; the Committee on Ethical Standards and Review; the Committee on Student Development; the Committee on Early Career Development; and the Committee on Professional Development and Licensure.

Education, which advocates for quality and innovation in mechanical engineering education at all levels, and provides resources for the support, development and recognition of excellence among engineering students, faculty, department heads, and other “stakeholders” in the mechanical engineering education community worldwide. It provides a forum for communication on matters related to mechanical engineering education among the academic, government, and industrial communities, and plans and executes the annual International Mechanical Engineering Education Conference. The following Committees make up this Center:

- The Board of Directors, Center for Education
- The Committee on Engineering Accreditation (CEA)
- The Committee on Technology Accreditation (CTA)
- The Mechanical Engineering Department Heads Committee (MEDHC)
- The Mechanical Engineering Technology Department Heads Committee (METDHC)
- The Student Loan Committee
- The Scholarship Committee
- The Graduate Teaching Fellowships Committee
- The Curriculum Innovation Award Committee
- The Ben C. Sparks Award Committee
- The Research and Graduate Education Task Force
- The Faculty & Student Advisor Development Task Force

Leadership and Diversity, which leads, facilitates, coordinates, and supports the activities of the Society relating to leadership development, mentoring, and diversity and outreach. The Center consists of the following Committees:

- The Committee on Strategy
- The Committee on Internship Programs
- The Committee on Diversity Programs
- The Committee on Leadership and Diversity Metrics; and
- The Committee on Diversity Relations

Among the initiatives in the Centers sector are the conduct of Career Fairs, the development of a documentary on Engineers Without Borders, and promotion of the inclusion of students in mechanical engineering worldwide.

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ASME ECLIPSE Program – The Early Career Leadership Intern Program to Serve Engineering (ECLIPSE) was developed in 2005 under the direction of the Center for Leadership & Diversity. This program is administered by the Committee on Internship Programs and is open to all units from every Sector of ASME. The objectives of this program are to:

- Expand the pool of future ASME leaders and develop their leadership capacity;
- Increase the number of female, non-traditional male and international ASME members in leadership positions; and
- Attract and retain young engineers from all backgrounds as ASME members through the development of role models and mentors.

Each internship lasts for one year. During that year all interns will have an opportunity to meet with their mentors and ASME leaders face-to-face at the Annual Meeting, the ASME Congress and the Leadership Training Conference. These gatherings will provide opportunities for orientation, teambuilding, networking, strengthening group dynamics and building camaraderie. All other communication will take place via the web and teleconference. Funds for intern travel are available through the program.

Institutes Sector - Providing a focused arena for business activities relevant to identified technical, educational or technological endeavors is the underlying purpose of ASME's Institutes sector. Institutes is involved with mature technical or educational areas, which still afford room for innovation, or with rapidly advancing technologies, where implementation strategies are still developing. Institutes does this primarily through content-driven products and services such as conferences, workshops, seminars, courses, educational products, publications and certification programs.

ASME currently has three full-fledged Institutes. A dynamic, market-oriented focus, with a sustainable business model, \$1 Million in gross revenue, a positive bottom line, and diversified portfolio of products and services are traits shared by the current ASME Institutes. The International Gas Turbine Institute (IGTI) achieved Institute status in 1986, followed by the Continuing Education Institute in 2001 and the International Petroleum Technology Institute (IPTI), formed in 2004. IGTI and IPTI both serve well-defined markets in their respective technology/industry sectors and are led by volunteer boards that develop the overall strategic plan. Each board has a Vice President to ASME.

IGTI serves the industry primarily through Turbo Expo, a Gas Turbine Users Symposium, Specialty Workshops and Conferences, contribution to two Journals, and by providing educational services and products as well as advocacy and awards programs. It is able to do this with over 15 technical committees and a dedicated staff of 7 based in Atlanta, GA.

IPTI serves the petroleum, offshore and pipeline industries through its three major events: the Offshore Technology Conference (OTC); Offshore Mechanics and Arctic Engineering Conference (OMAE); and the International Pipeline Conference (IPC). In addition, IPTI sponsors workshops and seminars, courses, a series of fundraising events (crawfish boils, golf tournaments), student and young engineer programs and awards. IPTI has a governing Board that coordinates the activities of three ASME Divisions - Petroleum; Ocean, Offshore and Arctic Engineering; and Pipeline Systems, each with a Board to manage the division's activities. They have an extensive volunteer network and a staff of 5 based in Houston, TX.

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The CEI serves a broader training and professional development market across a large number of industries and strives to maintain robust platforms for conducting training live, on-site, on the web and globally through licensing programs. CEI is slightly different as it is driven mainly by staff with an advisory board.

Also residing in the Institutes sector are future Institutes. Engineering Management Certification International is a certification program based on the EMCI™ Body of Knowledge (EMC-BOK™). The EMC-BOK™ was developed by engineering practitioners from a wide range of industries and disciplines to set the standard for engineering management worldwide. The need for EMCI was initially identified by staff within CEI, and EMCI quickly became its own department. Developed in close collaboration with AIChE, AIME and ASCE, EMCI is now managed as a separate entity in order to guarantee its multi-disciplinary nature and its clear separation from training.

The Institutes Sector also includes an area for business development, or “Emerging Technologies.” This area helps ASME expand its portfolio in the emerging fields of new technology as well as expand market share and relevance to specific customers in existing sectors. The area also serves as a staging ground for other units within the Society to attain Institute status. Current programs in the Emerging Technologies area include ASME’s Nanotechnology, Fuel Cell and Bio-Process Seminars. This portfolio of activities is expected to expand under the guidance of the Board of Institutes and input from industry partners, the Strategic Management Sector and other groups within ASME.

Strategic Management Sector - The Strategic Management Sector conducts the activities of the Society related to the identification, capture and transfer of knowledge that support ASME’s strategic planning, and the development of Society-wide initiatives to address ASME’s strategic priorities. The units of the Sector include the Board on Government Relations, the Industry Advisory Board, the Strategic Initiatives and New Products Committee and the Strategic Issues, and the Opportunities and Knowledge Committee.

Environmental scanning reports have identified six areas of opportunity that create critical organizational challenges for ASME:

- global harmonization of standards
- technology innovation networks
- systems thinking
- attracting and educating tomorrow's engineer
- collaborative learning communities
- bio-convergence: biology meets engineering

The following Cross-Sector Initiatives are spearheaded from the Strategic Management Sector:

- Enterprise-wide Initiatives
 - Global Summit on the Future of Mechanical Engineering
 - Implementation of the Innovation Study Recommendations
 - Early Career Engineer Strategic Initiative – series of activities across sectors for career development, transfer of technical knowledge, online benefits, networking

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- Globalization Strategic Initiative – series of activities across sectors for dissemination of codes and standards, conferences and continuing education, primarily in China, India and Europe
- Industry Advisory Board engagement
 - Carbon Mitigation/Footprint
 - Measuring Innovation
- Center for Engineering Entrepreneurship & Innovation
 - Innovation Showcase – annual educational program and competition for innovative products
 - Programs for technology entrepreneurs
- Government Relations
 - Global Climate Change
 - Engineering R&D Symposium
 - Federal Fellows Program – places engineers in one-year positions in the federal government as technical advisors

Communication: Three email newsletters are produced bi-monthly by Strategic Management and are also available on the website:

Strategic Issues and Trends
Strategic Initiatives Update
Capitol Update

Parliamentary Procedure – ASME uses parliamentary procedure to conduct many important meetings of the Society’s leadership. Parliamentary procedure is the main method used to organize meetings. This is governed by Roberts Rules of Order, which were created in 1876 by Henry Martyn Robert, an Army engineering officer.

VOLT Academy – The Volunteer Orientation Leadership Training (VOLT) Academy was created to be a resource for volunteer leaders throughout the society. The VOLT Academy works across all sectors of the society by helping to support leadership training events, developing and highlighting other training sources, and outlining the skills and resources needed for various levels of ASME leadership. The **Volunteer Opportunities Bulletin Board** (VOBB) also falls under VOLT as a tool to connect members with open volunteer positions across the Society.

Honors and Awards Program - Recognition of outstanding achievement in engineering is one of the major objectives of ASME, which it seeks to attain through its programs of honors and awards. Such programs provide necessary and desirable recognition for outstanding contributions to the art and science of engineering. They give opportunity for personalized presentations to honor recipients which dramatize to the public the achievements of the engineering profession. They provide inspiring examples to all engineers, and they identify ASME with excellence in engineering.

Honors Information

The Society honors and awards fall into two main categories, those for achievement and those for contributions to engineering literature. Achievement awards may in turn be grouped into

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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.

The Honors website includes a list of the various honors and awards, along with qualifications and past recipients, and explains the procedures for granting them. To access the honors website please go to <http://www.asme.org/Governance/Honors/SocietyAwards/>.

Who May Nominate?

Any individual member or committee may nominate candidates for any Society honor and award or for any Joint Award, except individual voting members of the Board of Governors, Committee on Honors, General Awards Committee, and other committees which sit in judgment on the nominations, unless it is the committee's responsibility to develop honors material. For additional information please go to

http://www.asme.org/Governance/Honors/SocietyAwards/List_All_Society_Awards.cfm

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 the List of all Society Awards at <http://www.asme.org/Governance/Honors/SocietyAwards/Nominate.cfm>. Comparison of the accomplishments of the candidate with the accomplishments of previous recipients of the honors will help the nominator in deciding whether to make a nomination. The Nomination Form contains detailed instructions and suggestions for preparing a nomination. Using the instructions in combination with the appropriate nomination form, 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 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 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.

For general achievement and literature awards, the General Awards Committee nominates the candidates to the ASME Committee on Honors for selection. For each special award, the relevant award committee nominates candidates to the ASME Committee on Honors for selection. In general, the Committee on Honors has the right of veto or of choice, but not the right of substitution for candidates who have been nominated by the General Awards Committee or Special Award Committees. For additional information on the Honors & Awards Program visit our website at

http://www.asme.org/Governance/Honors/SocietyAwards/General_Information.cfm.