DRAFT AGENDA
BOARD OF GOVERNORS

Day & Time: Sunday, June 11, 2017
Closed Session: 8:30 AM – 12:00 PM
Open Session: 1:00 PM – 4:50 PM

Location: Newport Beach Marriott Hotel & Spa, Newport Beach, CA
Newport Ballroom

1. Closed Session
   (8:30 AM – 12:00 PM)
   1.1. Welcome (5 minutes)
        Keith Roe

   1.2. FY17 Q3 Enterprise Update (15 minutes)
        Tom Loughlin
        (Agenda Appendix 1.2)

   1.3. Report from Transition Planning Committee (30 minutes)
        Keith Roe

   1.4. EDESC Report (20 minutes)
        Julio Guerrero
        (Agenda Appendix 1.4)

   1.5. Selection of Honorary Members and ASME Medalist (5 minutes)
        Keith Roe
        (Agenda Appendix 1.5)

BREAK (9:45 AM – 10:00 AM)

1.6. Integrated Operating Plan/Budget (120 minutes)
     Jeff Patterson and Bill Garofalo
     (Agenda Appendix 1.6)

LUNCH (12:00 PM – 1:00 PM)

2. Opening of the Meeting
   (1:00 AM – 1:05 PM)
   2.1. Call to Order (5 minutes)
        Keith Roe

   2.2. Adoption of the Agenda

   2.3. Announcements
2.4. Consent Items for Action
   2.4.1. Identification of items to be removed from Consent Items
   Consent Items for Action are items the Board is asked to take action on as a group. Governors are encouraged to contact ASME Headquarters with their questions prior to the meeting as it is not expected that consent items be removed from the agenda.

   2.4.2. Approval of Minutes from Meeting on April 21, 2017

   2.4.3. By-law B.5.2.6.1 for Second Reading-Creation of Strategy Advisory Committee and Elimination of Committee on Governance
   (Agenda Appendix 2.4.3)

3. Agenda Items
   (1:05 PM – 4:50 PM)

   3.1. President’s Remarks (10 minutes) DISCUSSION
        Keith Roe

   3.2. Executive Director’s Remarks (10 minutes) DISCUSSION
        Tom Loughlin

   3.3. Report on Closed Session from June 11, 2017 (5 minutes) INFORMATION
        Keith Roe

   3.4. Strategy Task Force Report (75 minutes) ACTION
        John Goossen
        (Agenda Appendix 3.4)

   BREAK (2:45 PM – 3:00 PM) Board Photo

   3.5. High Performing Board Task Force Report (45 minutes) ACTION
        Bill Wepfer
        (Agenda Appendix 3.5)

   3.6. Industry Task Force Report (15 minutes) ACTION
        Stacey Swisher Harnetty
        (Agenda Appendix 3.6)

   3.7. Group Engagement/Alignment Task Force Report (30 minutes) ACTION
        Rick Marboe
        (Agenda Appendix 3.7)

   3.8. Comments from Outgoing Board Members (10 minutes) INFORMATION
        Urmila Ghia, John Goossen, and Jack Tuohy

   3.9. Reflections on Past Year (10 minutes) INFORMATION
        Keith Roe
4. **New Business**
5. **Information Items**
   
   5.1. Sector Management Committee Report
   
   5.2. CY16 Fellows Listing
   
   5.3. Approved Society Awards Listing
   
   5.4. Report by Corporate Counsel (Closed)

6. **Adjournment**
List of Appendices

1.2 FY17 Q3 Enterprise Update (Closed)
1.4 EDESC Report (Closed)
1.5 Selection of Honorary Members and ASME Medalist
1.6 Integrated Operating Plan/Budget
2.4.3 By-Law B5.2.6.1 for Second Reading
3.4 Strategy Task Force Report
3.5 High Performing Board Task Force Report
3.6 Industry Task Force Report
3.7 Group Engagement/Alignment Task Force Report
5.4 Report by Corporate Counsel (Closed)
AGENDA ITEM

Cover Memo

Date Submitted: May 26, 2017
BOG Meeting Date: June 11, 2017

To: ASME Board of Governors
From: ASME Presidential Task Force on Building a High Performing Board and ASME Presidential Task Force on Strategy & Planning
Presented by:
   Bill Wepfer, ASME Governor, Chair of ASME Presidential Task Force on Building a High Performing Board;
   John Goossen, ASME Governor, Chair, ASME Presidential Task Force on Strategy & Planning

Agenda Title: Motion to change existing by-laws to create Strategy Advisory Committee and eliminate Governance Committee

Agenda Item Executive Summary:
There is a connection between the existing description of the Governance Committee and the planned activities of the Strategy Advisory Committee so this is a joint motion – eliminate the Governance Committee (COG) and create a Strategy Advisory Committee (SAC).

On February 1, 2017, the Board voted to create a strategy and planning committee named the Strategy Advisory Committee (SAC), reporting to the ASME Board of Governors. This motion includes the by-laws to officially create it.

Elimination of Committee on Governance:
The Committee on Governance has been dormant for FY16 & FY17. The last time this committee met was in May 2014. Eliminating COG would codify our current practice.

ASME By-Law B5.2.6.1 and B5.2.6.2 gives two major responsibilities to COG. The recommendation is to give one responsibility to VOLT, which already works with senior volunteers and the Nominating Committee on orienting future leaders. The other responsibility will be given to SAC.

<table>
<thead>
<tr>
<th>Current Committee on Governance</th>
<th>Post-Committee on Governance</th>
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<tbody>
<tr>
<td>“identify and recommend appropriate training and orientation for members of the Board of Governors”</td>
<td>VOLT operations guide</td>
</tr>
<tr>
<td>“evaluate and recommend Board structures and processes that will encourage efficient and effective Board operation, governance, decision-making practices, and strategic management and planning”</td>
<td>SAC operations guide</td>
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</tbody>
</table>
Creation of Strategy Advisory Committee:
ASME Board of Governors has led an extensive effort over the last two years related to enterprise strategic planning. The current strategic plan represents a significant change of direction for ASME and provides a good baseline for strategic planning going forward. To ensure the strategic planning is forward-facing and doesn’t get outdated, it is essential for the plan to be reviewed comprehensively, by the Board, on a regular basis and tied to short and long term goals (e.g. 10-3-1) and key performance indicators (KPIs).

Over the last several years the ASME has disbanded a strategy committee reporting directly to the Board and replaced it with various ad hoc strategy task force committees. All of these task forces have contributed to the basis of the current approved strategy. To ensure its endurance and continuity, it is clear to the members of the FY2017 Taskforce on Strategy and Planning (John Goossen, Chair) that the creation of a permanent strategy committee to the Board is needed. Development of the roles and responsibilities for a High Performance Board and a Staff Strategy function has clearly identified gaps and further supports the need for the establishment of a strategy committee to the Board to ensure ASME effectively communicates and implements the current plan, and creates and monitors short and long term goals and KPIs, and helps the Board navigate future challenges and opportunities facing the ASME.

Financial Implications:
- Currently there is no budget for Committee on Governance so there are no savings with its elimination.
- Most of the work of the new Strategy Advisory Committee will be done via phone or Web so there are no additional direct costs.
- It is anticipated that SAC may meet one or two times per year, in-person. The assumption is that in-person meetings will be held in conjunction with already scheduled Board meetings (where most members will already be) or held in the ASME NYC offices, to keep costs lower.
- Budget request – a total of $30,000

Proposed motion for Board of Governors Action:
The Board of Governors approves the following changes to ASME By-laws B5.2.2, 5.2.6.1 and 5.2.6.2. The changes eliminate the Committee on Governance and create the Strategy Advisory Committee.

B5.2.2 The following Standing Committees shall report to the Board of Governors and shall be appointed by the Board or the President as determined in the By-Laws: Committee on Organization and Rules, Committee on Finance and Investment, Audit Committee, Committee on Executive Director Evaluation and Staff Compensation, Strategy Advisory Committee, Committee on Governance, Committee on Honors, and the Committee of Past Presidents. Each Standing Committee shall maintain its own operation guide as prescribed by Society Policy. If a Standing Committee includes individuals who are not Governors, it is not a committee of the Board and may not bind the Board; provided, however, that the

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1 As a reference point, COFI currently spends between $10,000-$15,000 per in-person meeting.
Committee on Finance and Investment may bind the Board with respect to investment matters without regard to whether it includes individuals who are not Governors.

B5.2.6.1 The Committee on Governance (COG) under the direction of the Board of Governors, shall have the responsibility to identify and recommend appropriate training and orientation for members of the Board of Governors and to evaluate and recommend Board structures and processes that will encourage efficient and effective Board operation, governance, decision-making practices, and strategic management and planning.

B5.2.6.2 The COG membership will consist of the Immediate Past President and three governors appointed by the President, one from each governor term. The Senior Governor will serve as the Chair.

B5.2.6.1 The Strategy Advisory Committee (SAC) under the direction of the Board of Governors, shall have the responsibility to provide direction, recommendations and guidance on tasks related to ASME’s strategy and planning; to provide recommendations on ASME’s mission and vision; to maintain, update, and communicate ASME’s strategic plan with the ASME community; to oversee progress on ASME’s Enterprise Objectives and Goals; and to provide guidance related to generative discussions, speakers, and materials for the Board of Governors.

B5.2.6.2 The SAC membership will consist of the President and the following appointees: three governors, one from each governor class and all serving in staggered three-year terms in parallel with their Board terms; one member from the Industry Advisory Board (proposed by the Industry Advisory Board and serving one or more full years on the SAC until the Industry Advisory Board proposes a successor); one member from the academic community (proposed by the Engineering Education Committee and serving one or more full years on the SAC until the Engineering Education Committee Industry Advisory Board proposes a successor); one non-governor member selected by the ASME President; and one staff executive (non-voting; proposed by the Executive Director and serving until the Executive Director proposes a successor). After the term of each of the initial group of governors appointed to the SAC, his or her successor will be appointed at the first meeting of the Board of Governors at which the successor takes office as a Governor, and the SAC shall then elect from among its voting members a Chair (who will not vote except in order to break a tie) and a Vice Chair (who will serve as Chair if the Chair is absent or ceases to serve). The SAC membership will consist of the President; three governors, one who serves in parallel with his/her Board term and selected by the ASME President prior to the governor’s first year on the Board; a member of the Industry Advisory Board; a member from the academic community; and one optional member selected by the ASME President. The staff executive assigned to this committee will be an ex officio member without vote. The Strategy Advisory Committee shall consist of a Chair, a Vice Chair and a membership as determined by the Board of Governors.
Date Submitted: May 26, 2017
BOG Meeting Date: June 11, 2017

To: Board of Governors
From: John Goossen, Chair, 2017 ASME Presidential Strategy & Planning Task Force
Presented by: John Goossen, Chair, 2017 ASME Presidential Strategy & Planning Task Force
Agenda Title: Strategy Task Force Report

Agenda Item Executive Summary:

As the 2017 ASME Presidential Strategy & Planning Task Force winds down its activities, it asks the Board to review the Strategic Advisory Committee Operations Guide and review and approve revised wording of the strategic plan approved in 2015. Both were discussed during the April 2017 Board meeting.

1) Revision to ASME Strategic Plan – As the Task Force conducted its work this year, it was clear that there was confusion over the 1) difference between Goals and Objectives, 2) relative importance of serving our mission or increasing revenue, and 3) definitions of each technology. To address these issues we made three major changes.

   a. Eliminated the Society Goal and incorporated its components into the Enterprise Strategic Objectives and moved the revenue component into a 10 Year Operating Goal;
   b. Wrote brief descriptions of each of the five core technologies.
   c. Revised Strategic Actions and added in 10 Year Society Goals

There are two attachments related to this motion. One shows the differences between what the Board approved in 2015 and the other is a clean copy of what is being requested for approval in 2017.

2) Strategy Advisory Committee Operations Guide – Attached is the proposed Operations Guide. It has been submitted to the ASME Committee on Organization and Rules for review and approval.

Proposed motion for BOG Action:

To approve the 2018 ASME Strategic Plan, as submitted in Appendix 3.4.
Attachments:

- Clean ASME Strategic Plan 5.26.17 (This document is a clean version without highlighted changes)
- ASME Strategic Plan Draft 5.26.17 (This document tracks previous changes)
- Strategy Advisory Committee Operations Guide (The guide is still being reviewed by ASME Committee on Organization and Rules. It will be shared with the Board prior to the Board’s June 11 meeting.)
ASME Strategic Plan\(^1\) (Draft)

**Mission**

ASME's mission is to serve diverse global communities by advancing, disseminating and applying engineering knowledge for improving the quality of life; and communicating the excitement of engineering.

**Vision**

ASME aims to be the essential resource for mechanical engineers and other technical professionals throughout the world for solutions that benefit humankind.

**Credo**

Setting the Standard...

- In Engineering Excellence
- In Knowledge, Community & Advocacy
- For the benefit of humanity

**Core Values**

In performing its mission, ASME adheres to these core values:

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

**Enterprise Strategic Objectives:**

By 2025, ASME will:

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\(^1\) The ASME Board of Governors will be asked to approve the content in June 2017. Communications materials developed after the text has been approved may have subtle changes regarding formatting, design, and graphics but must not change the meaning of any of the language without authorization from the Board of Governors.
• Enhance its relevance and impact Be relevant and impactful to global constituents by being the recognized leader in advancing engineering technology.
• Be called upon to be the go-to organization to help address key technology-related challenges in the public interest in a manner that engages core engineering constituencies (government, academia, industry, engineers, students, and technology development professionals).
• Have a unified organizational structure and culture that encourages and empowers members and other interested individuals to find their lifelong professional home where they can impact the world, contribute content, share ideas, participate in communities, and work on projects that improve the human condition.

**GOALS**

ASME has four sets of organizational goals.

- **Society Goals** (Included in the Strategic Plan)
- **Operational Goals** (Goal for 2025 included in Strategic Plan; all other goals included in separate internal goals document)
- **Staff Incentive Goals** (Included in separate internal goals document)
- **Executive Director Goals** (Included in separate internal goals document)

**10 Year Society Goals**

- ASME is an internationally-renowned thought leader and networking hub for engineering knowledge and information, best practices, and events. [SG10a]
- ASME enables collaboration among industry, government, and academia to advance the cause of engineering worldwide. [SG10b]
- ASME’s engagement is open and seamless, empowering individuals worldwide to contribute, communicate, and consume engineering content to solve technical problems. [SG10c]
- ASME is globally respected for its Standards and Certification programs and is recognized for enhancing public safety and improving quality of life for humankind. [SG10d]
- ASME offers education and training programs to prepare the workforce of tomorrow to address the world’s challenges. [SG10e]

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2 Society Goals are meant to guide and motivate the whole ASME community from the grassroots level to the Board level. They are meant for members & non-members, volunteers, and staff. Additional tactical and operational goals are maintained by staff. (This text is not part of the official strategic plan. It is not required to be used in communications materials but may be used, as needed.)
• ASME engages and inspires young people to pursue careers in engineering. [SG10f]
• ASME’s growing impact on the world is enabled by a well-managed and diversified revenue stream that provides sustainable financial health. [SG10g]

Note – “Codes” are used at the end of each 10 year Society Goal. All other goals should be tied back to between one to three goals. The “codes” do not need to be published in communications/promotional materials.

Strategic Actions

• Leadership Position – Mobilize distinct, under-leveraged assets (for example, the expertise of our community) to establish value as a technology innovation partner to executive leadership.
• Technology Portfolio – Create and manage a well-balanced, sustainable technology portfolio along with associated industry- and geography-based strategies.
• Solutions Portfolio – Strengthen and expand solutions portfolio: defend Standards & Certification against agile competitors; solidify and diversify ASME’s revenue base by developing solutions with strong customer demand; establish deeper expertise in content and technology development and deployment across the Technology Development Curve.
• Collaboration – Enhance ASME’s impact in the mechanical engineering field by broadening collaboration with peers, creating greater scale and impact, reducing barriers to entry, and expanding diversity and student engagement.
• Engagement – Increase core constituent engagement around the world by providing high-value, relevant, impactful, and rewarding opportunities to network, participate, and learn through a branded set of technology- and purpose-advancing activities delivered through a variety of platforms.

The Strategic Plan is focused on Five Core Technologies and Eight Enabling Applications and Cross-cutting Technologies listed below:

FIVE CORE TECHNOLOGIES

The following five core technologies have been identified as key to the overall Strategic Plan. Each technology has a Technology Advisory Panel (“TAP”) of experts in their field and their role is to identify the needs of the market in that technology area. A detailed definition of each of the five core technologies is part of the terms of reference for each applicable TAP.

Manufacturing
• The technologies associated with traditional and advanced manufacturing. Traditional manufacturing is considered to be the processes of converting raw materials into finished products using mechanical or mechanized transformational techniques whereas advanced manufacturing is considered to be the innovative application of technologies, processes and methods to product design and production.

Pressure Technology
Pressure technology comprises those technologies and market spaces representing the design, materials, fabrication, inspection, commissioning, operation, and maintenance of pressure equipment including through life expectancy and failure prevention.

Clean Energy
- Clean Energy comprises those technologies for energy generation and usage while minimizing the impact on the environment, including the production of electricity and heating through renewable energy systems, such as solar, wind, biomass, and energy-from-waste, related energy storage and distributed generation technologies, nuclear power generation, energy efficiency, and certain areas of emissions control.

Bioengineering
- The technologies associated with the application of engineering skills and analysis to developing products, pharmaceuticals, biologics, food supplements and preservatives covering diagnosis, prevention and treatment of disease, food production, cosmetics production and ergonomics.

Robotics
- Industrial machine systems that can be programmed to perform predefined tasks, respond to specific inputs or programmed to operate autonomously within a specified environment. Robotics includes traditional industrial machine systems that typically have three degrees or more of articulation as well as emerging areas such as service robots, drones and autonomous vehicles which share the core technologies.

EIGHT ENABLING APPLICATIONS AND CROSS-CUTTING TECHNOLOGIES
- Internet of things (IoT)
- Big data analytics
- Artificial intelligence
- Cybersecurity
- Sustainability
- Materials
- Nanotechnology
- Design engineering
ASME Strategic Plan\textsuperscript{1}

**Mission**

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**Enterprise Strategic Objectives:**

By 2025, ASME will:
- Be relevant and impactful to global constituents by being the recognized leader in advancing engineering technology.
- Be the go-to organization to help address key technology-related challenges in the public interest in a manner that engages core engineering constituencies (government, academia, industry, engineers, students, and technology development professionals).
- Have a unified organizational structure and culture that encourages and empowers members and other interested individuals to find their lifelong professional home where they can impact the world, contribute content, share ideas, participate in communities, and work on projects that improve the human condition.

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- ASME **engages and inspires young people** to pursue careers in engineering. [SG10f]
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The Strategic Plan is focused on **Five Core Technologies** and **Eight Enabling Applications and Cross-cutting Technologies** listed below:

### FIVE CORE TECHNOLOGIES

The following five core technologies have been identified as key to the overall Strategic Plan. Each technology has a Technology Advisory Panel (“TAP”) of experts in their field and their role is to identify the needs of the market in that technology area. A detailed definition of each of the five core technologies is part of the terms of reference for each applicable TAP.

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- The technologies associated with the application of engineering skills and analysis to developing products, pharmaceuticals, biologics, food supplements and preservatives covering diagnosis, prevention and treatment of disease, food production, cosmetics production and ergonomics.

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EIGHT ENABLING APPLICATIONS AND CROSS-CUTTING TECHNOLOGIES

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- Big data analytics
- Artificial intelligence
- Cybersecurity
- Sustainability
- Materials
- Nanotechnology
- Design engineering
ASME Board of Governors  
Agenda Item  
Cover Memo

Date Submitted: May 24, 2017  
BOG Meeting Date: June 11, 2017

To: Board of Governors  
From: William Wepfer, Chair, 2017 ASME Presidential Task Force on High Performing Board  
Presented by: William Wepfer, Chair, 2017 ASME Presidential Task Force on High Performing Board  
Agenda Title: High Performing Board Task Force Report

Agenda Item Executive Summary:

As the 2017 ASME Presidential High Performing Board Task Force winds down its activities, it asks the Board to review and approve one motion. During the April 2017 Board working session and meeting, the Board discussed and then accepted the Roles and Responsibilities Matrix. As stipulated in the April Board motion, the matrix will be appended to the Board of Governors Operations Guide.

In the course of the Task Force’s work this year, it was clear that the Board of Governor’s Operations Guide needed updating. The Task Force has made revisions to the Operations Guide. Most noticeably, it 1) removed sections that were deemed unnecessary and were subject to change depending on circumstances (for example, the Board seating chart), 2) added appendices including the Roles and Responsibility Matrix and Best Practices for Boards.

There are two attachments related to this motion. One is a clean copy that is being requested to be approved in June 2017. The other shows the differences between the previous Operations Guide and the one being proposed.

Proposed motion for BOG Action:
To approve the revised ASME Board of Governors Operations Guide as provided in Appendix 3.5

Attachments:
- ASME Board of Governors Operations Guide (This document is a clean version)
- Tracking differences - ASME Board of Governors Operations Guide May 2017 (This document highlights differences between what is being proposed and the current Operations Guide)
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 26, 2017
BOG Meeting Date: June 11, 2017

To: Board of Governors
From: Stacey Swisher Harnetty, Chair, 2017 ASME Presidential Task Force on Increasing Industry Leadership Engagement
Presented by: Stacey Swisher Harnetty, Chair, 2017 ASME Presidential Task Force on Increasing Industry Leadership Engagement and Bobby Grimes, 2017 Governor-elect
Agenda Title: Industry Task Force Report

Agenda Item Executive Summary: (Do not exceed the space provided)

A final report will be shared from the task force.

Proposed motion for BOG Action:

The ASME Board of Governors:
 a) Accepts the full report from the FY2017 Presidential Task Force on Increasing Industry Leadership Engagement in ASME, as submitted, and thanks them for their excellent work;
 b) Endorses the evaluation of top recommendations for inclusion in the FY18 Integrated Operating Plan;
 c) Asks that all of the recommendations in the full report be evaluated for inclusion in the FY19 Integrated Operating Plan and future Integrated Operating Plans, as appropriate.

Attachments:
Full report from 2017 ASME Presidential Task Force on Increasing Industry Leadership Engagement
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 25, 2017
BOG Meeting Date: June 11, 2017

To: Board of Governors
From: Sector Management Committee
Presented by: Charla Wise and Rick Marboe
Agenda Title: Motion For Group Engagement Committee

Agenda Item Executive Summary: (Do not exceed the space provided)

The Sector Management Committee chartered a Group Engagement / Alignment Task Force in April 2016. The TF report has been presented to the BOG including:

- The Task Force’s 44 recommendations were presented in the contexts of broad applicability and specific group types;
- Each was rated for impact and urgency with 10 URGENT, 14 HIGH, 14 MEDIUM, and 6 LOW;
- Each had actions listed in the expected 1, 2-3, and 7-10 yr time frames;
- Each had a statement on functional alignment to achieving strategy success and becoming a “Go To” organization; and
- Four impactful ones were presented with more detail for incorporation consideration for the FY18 Integrated Operating Plan

The following two (2) motions reflect acceptance of the task force report and consideration for the recommendations plus a SMC recommendation to refine the structure of its group engagement function assigned by the BOG in April 2014.

Proposed motions for BOG Action: (if appropriate)

Motion 1
The ASME Board of Governors:

a) Accepts the full report from the FY2016-17 Sector Management Committee Task Force on Group Engagement / Alignment, as submitted, and thanks them for their excellent work;

b) Endorses the evaluation of Priority Recommendations 2, 3, and 4 of the top ten recommendations for inclusion in the FY18 Integrated Operating Plan and;
c) Asks that all of the recommendations in the full report, with special focus on the top ten recommendations, be evaluated for inclusion in the FY19 Integrated Operating Plan and future Integrated Operating Plans, as appropriate.

Motion 2
The ASME Board of Governors:

a) Creates a Group Engagement Committee that will: (1) liaise with and review Groups (assessing KPI's); (2) develop Rules of Engagement between and among Sectors and the Committee on Finance and Investment; and (3) coordinate with VOLT to prepare communication training for Groups to communicate expectations and opportunities for alignment with ASME mission and strategy.

b) Creates a position of Chair of the Group Engagement Committee to be nominated by the Sector Management Committee and appointed by the Board of Governors, the term of such Chair to run for a period of one year subject to annual renewal by the Board of Governors and such Chair to serve, by invitation of the Sector Management Committee, as a voting member of the Sector Management Committee.

c) Endorses in principle the eventual establishment of a Group Engagement Sector with its own Senior Vice President and other sector attributes, subject to further guidance and recommendations of the Group Engagement Committee and the Sector Management Committee and the requisite Bylaw amendments.

d) Sunsets the SMC Group Engagement Transition Team created by the Board as part of the approved K&C/I reorganization package once the organization above is in place.

Attachments:
ASME Board of Governors

Agenda Item

Cover Memo

Date Submitted: May 19, 2017
BOG Meeting Date: June 11, 2017

To: Board of Governors
From: Sector Management Committee

Agenda Item Executive Summary:

The report updates the BOG on SMC activity and is for information only. There is no action required.

Proposed motion for BOG Action: (if appropriate)
No action

Attachments:
One
I. SMC Operations

- The SMC will meet in Newport Beach, CA during the Annual Meeting. In addition to a quick update for the incoming chair, the committee will begin a dialogue about moving from a reactive to a proactive SMC.
- VOLT will offer a Leadership Training Workshop at the Annual Meeting in June on Business Planning Essentials for ASME Groups.
- Gemma Tansey, staff support to the SMC since its inception, has retired. Allian Pratt will now support the committee.

II. Sector Highlights

**Standards and Certification – Laura Hitchcock/Bill Berger**

*Quarterly Highlights:*

- The Council on Standards and Certification (CSC) last met via web conference on March 2 and will be meeting on June 13 during the Annual Meeting in Newport Beach, CA.
- At its March 2 meeting, CSC considered and approved additional recommendations from its four strategy Task Teams appointed to facilitate implementation of portions of the S&C Strategic Plan [International Working Groups, Derivative (or Companion) Products, Benchmarking Other SDO’s (in how they identify standards opportunities for emerging technologies in their areas), and Committee Best Practices]. Among the recommendations approved were (1) to invite selected regulatory agencies to present to CSC, discussing how they consider and address new and emerging technologies from a regulatory perspective, and to position ASME as a potential resource for the agencies in providing standards that may serve as a means of supporting the regulations relevant to these technologies, as well as for any future needs of those agencies; and (2) request the Board on Codes and Standards Operations to consider development of an expedited process to stand up new standards development committees to address emerging technologies.

- Two new International Working Groups were established - Italy IWG for the Boiler and Pressure Vessel Standards Committee V on Nondestructive Examination and the Germany IWG for the Boiler and Pressure Vessel Standards Committee VIII on Pressure Vessels. The China IWG for the Nuclear Quality Assurance Committee will be launched in July, and work continues towards establishment of a Mexico IWG for the B30.5 Subcommittee on Mobile and Locomotive Cranes. Additionally, a translation of the B30.5 Standard in Spanish was completed.
• S&C is an active participant on the American National Standards Institute (ANSI)/America Makes Additive Manufacturing Standardization Collaborative, which has produced a roadmap for additive manufacturing standards, i.e. existing standards, standards gaps, and recommended standards development organization (SDO’s) to fill those gaps. SDO’s are in the process of considering potential standards activities to fill the identified gaps.

• The Board on Strategic Initiatives (BSI) has initiated implementation of its newly-created protocol for the evaluation of new initiatives.

• CSC approved the recommendations of the S&C Committee on Nominations for member and officer positions effective June 2017.

• On April 10, Claire Ramspeck joined ASME S&C as the new Managing Director, Standards Development after more than 21 years with ASHRAE.

**Upcoming Activities/What’s on the Horizon?**

*(For this section it is requested that the Sectors/committees of SMC communicate any action they may be looking at for the future (updated by-laws, policies, etc.); support from other Society units/the BOG, etc.)*

As noted above, BSI has initiated implementation of a new protocol for the evaluation of new initiatives. This will be handled via the establishment of ad hoc evaluation teams. BSI is looking for volunteers to participate on the ad hoc evaluation teams. The volunteers need not be participants in the S&C Sector.

**Technical Events and Content (TEC) – Rick Marboe/John Koehr**

**Quarterly Highlights**

• Technical Events and Content (TEC) Council
  - Segment Leadership Team (SLT) meetings and conference activities are described below for each segment.

• Design, Materials, and Manufacturing (DMM) Segment
  - The Rail Transportation Division annual Joint Rail Conference was held April 4-7, 2017 at the Doubletree Philadelphia City Center.
  - DMM SLT met on April 15, 2017 in Washington, DC concurrent with the MEED conference.

• Energy Sources and Processing (ESP) Segment
  - ESP Segment Leadership Team meeting was held during the OTC conference on May 3, 2017.
  - Offshore Technology Conference (OTC) 2017, was held in Houston, TX, from May 1-4, 2017. [64,700 attendees, 2,470 exhibitors; down 5% from 2016]
  - The Pipeline Systems Division Annual meeting was held in Santa Fe, NM on March 22-25, 2017.
The India Oil & Gas Pipeline Conference was held in Mumbai, India from April 20-22, 2017

Energy Conversion and Storage (ECS) Segment

- ECS Segment Leadership Team meeting was held in ASME’s DC office on April 19-20, 2017.

Gas Turbine Segment (GTS)

- SLT quarterly meeting held March 11-12, 2017
  - discussed development of a Maintenance Repair and Overhaul (MRO) / Gas Turbine (GT) Aftermarket event – currently developing value proposition and target audience description
  - discussed the creation of a Technology Roadmap focused on the global Gas Turbine industry – identifying needs of additive manufacturing and MRO technology performance goals, among other possible targets

Engineering Sciences Segment (ESS)

- SLT meeting was held on February 4-5, 2017 in conjunction with the Micronarc Alpine Meeting in Villars, Switzerland with the next one scheduled on May 18-19 at the ASME Washington DC office. Frequent telecons have been held.
  - As part of the February meeting, ESS invited a presentation by the Student and Early Career Sector on how ESS can better engage ECEs in technical conferences.
  - The focus of the Micronarc meeting was on equipment and innovative processes and technologies for manufacturing microproducts. A roundtable discussion was held with 10 of Micronarc members to identify their challenges.

Upcoming Activities/What’s on the Horizon?

TEC Council

- A face-to-face TEC Council meeting is scheduled for June 10, 2017 in Newport Beach, CA, concurrent with the ASME Annual Meeting.
- Proposing changes in conference budgeting guidelines.
- Design, Materials, and Manufacturing (DMM) Segment
  - The Manufacturing Engineering Division is scheduled to hold its annual MSEC conference at the University of Southern California in Los Angeles, California, June 4-8, 2017
  - The Design Engineering and CIE Divisions will hold their annual IDETC/CIE conference in Cleveland, Ohio, August 6-9, 2017
  - The Dynamic Systems and Control Division will hold its annual conference in Tysons Corner, Virginia, October 11-13, 2017

Energy Sources and Processing (ESP) Segment
• Ocean, Marine, and Arctic Engineering (OMAE) 2017 Conference, Trondheim, Norway, June 2017
  o The International Pipeline Geotechnical Conference will take place in Lima, Peru from July 24-26.

• Energy Conversion and Storage (ECS) Segment
  o The Power Division Annual meeting is scheduled to be held June 25, 2017 during the P&E’17 Conference

• Gas Turbine Segment (GTS)
  o Turbo Expo (TE), June 26-30, 2017 (combined with Power & Energy for 2017 only)
    - 1104 papers, 146 exhibiting companies, 12 sponsoring companies
    - 1956 registrants as of May 1, 2017
    - Additive Manufacturing Day, Wed., June 28th
  o Gas Turbine India (GT India), Dec. 7-8, 2017
    - 382 abstracts received through Call for Papers
    - Highest number of abstracts in GT India history

• Engineering Sciences Segment (ESS)
  o Planning for the following ESS conferences are underway and on target for execution:
    - 2017 Fluids Engineering Division Conference, July 30-August 4 in Waikoloa, HI. Fluids 2018 is under consideration by ESS.
    - 2017 Summer Heat Transfer Conference, July 9-14 in Bellevue, WA.
    - 2017 International Conference on Nanochannels, Microchannels, and Minichannels, August 27-30, Cambridge, MA
    - 2017 IMECE, November, Tampa, FL

Public Affairs & Outreach (PA&O) – Tim Wei/Melissa Carl

Engineering for Global Development & Engineering for Change

Quarterly Highlights:

• ISHOW Global - A very successful ISHOW India took place in Bengaluru April 27. Preparation for Kenya and the US are underway. Winners of the events win seed money, engineering reviews/advice, and a ticket to the ISHOW global event in NYC in October.
• DEMAND – Spring 2017 marks Demand’s first quarterly issue, featuring four case studies dissecting pilot projects in development technology, including a collaborative infographic with the Center for Democracy and Technology on responsible algorithmic design and a contributed case study from Catapult Design on its Povu Poa handwashing pilot in Kenya.
Online and Twitter usage is steady. We have developed a short-term marketing strategy to formally "launch" Demand in July, in the months leading up to October's Impact. Engineered event. While at the 2017 Global Entrepreneurship Summit in South Africa, DEMAND met with the event planners to discuss EGD/E4C speaking opportunities and media partnership for 2018 event in Turkey.

- EGD Research – Organization/recruitment of speakers for the EGD fifth anniversary Research Forum at IDETC is underway.
- EGD Committee – Strategy for scaling EGD has been approved by Committee. Sponsorship prospectus for EGD’s portfolio is being finalized to help make program self-sustainable.
- Engineering for Change – E4C secured new sponsor Yamaha Motor Ventures & Laboratory Silicon Valley (YMVSV). YMVSV exists to accelerate the efforts of teams driving disruptive change. With the departure of Noha El-Ghobashy, Iana Aranda is Acting President and E4C welcomed Mariela Machado as the new Programs Manager of Operations. Summer 2017 E4C Research Fellowship attracted over forty (40) qualified applicants worldwide. Twelve (12) exceptional Fellows were selected from the US, Canada, Mozambique, Guatemala, Uganda and Spain.

Upcoming Activities/What’s on the Horizon?

- DEMAND, July launch of Demand’s marketing strategy, including new monthly and quarterly newsletters, hardcopy packages for a sample of 100-200 readers, and formal launch on Medium and LinkedIn. Summer issue released late June, featuring projects by the World Bank, Johnson & Johnson (with SHE Innovates in Rwanda), and the U.S.-China Innovation Alliance.
- EGD Research – EGD Research Workshop and Forum on August 6-7 at IDETC.
- E4C - E4C Research Fellowship kick-off on May 15.

Engineering Education

Quarterly Highlights:

- STEM Ed Coalition: Higher Education Working Group Meeting
- Spring ABET Board of Delegates & Directors meetings, April 1-2, 2017 Baltimore, MD.
- CMES Delegation Visit HQ April 6, 2017 – Joint China Summit Fall 2018
- 2017 Summit Int'l ME Ed Leadership (MEED) Washington DC, April 18-20, 2017. Co-chairs are from George Mason University. Ken Ball, Dean of Engineering and Oscar Barton, Chair of ME Dept.
- 50K Coalition 2017 Convening, April 26-27, 2017

Upcoming Activities/What’s on the Horizon:

- Five ASME 2017-2018 Graduate Teaching Fellowships to be awarded by end of May 2017, anticipating four second year renewals and one new Fellow to be determined.
- ABET Fall Visit Assignments for Fall 2017-2018
- WEPAN Conference – Disseminate TECAID updates June 13, 2017
- ASEE Annual Conference – ME/MET DH meetings Columbus, OH June 24-26, 2017
Government Relations (GR)

Quarterly Highlights:

- On April 25, ASME once again served as the lead organizer of the 14th annual Engineering Public Policy Symposium entitled, “Federal Investments in Engineering and Science to Spur Innovation and Competitiveness.” The Symposium is in its 14th year and successfully brought together 150 Presidents, Presidents-Elect and Executive Directors from 44 engineering societies, representing more than two million engineers. Thirty-one ASME leaders from several technical divisions, the Committee on Government Relations, and the Industry Advisory Board participated in 60 House and Senate Congressional visits after the Symposium concluded.
- ASME partnered with the Gas Turbine Association, the Consortium for Advanced Production and Engineering of Gas Turbines and Rotating Machinery, the American Gas Association, and the US Advanced Ceramics Association on an April 5th Congressional Briefing on Gas Turbine Energy and Manufacturing issues.
- ASME convened a Congressional Briefing with the Senate Armed Services Committee on the Current State of Advanced Manufacturing in the U.S. on March 27. The Senate Armed Services Committee requested that ASME host a staff-only briefing on advanced manufacturing. Panelists included ASME Fellow Dr. Andrew Bicos of The Boeing Company, ASME Manufacturing Public Policy Task Force Chair Dr. Thomas Kurfess of the Georgia Institute of Technology, Karen Fite of the Georgia MEP, and Rebecca Taylor of NCMS.
- On February 16, Government Relations worked with the Petroleum Division to organize an early career event entitled, “Public Policy and the Energy Sector.” Featured speakers included: Noël Bakhtian, former ASME Swanson Fellow at the White House Office of Science and Technology Policy, and Phil Grossweiler, former ASME Congressional Fellow for former Representative Heather Wilson (R-NM).
- The Licensing That Works Coalition continues to monitor an effort by ASCE to introduce a bill in New Jersey to require a masters or equivalent for licensure. The Coalition is in opposition, and has hired a local firm to monitor the situation. The bill has not been introduced to date.
- Since January 2017, eight position statements related to research and development (R&D) and manufacturing have been released and may be viewed at: https://www.asme.org/about-asme/get-involved/advocacy-government-relations/policy-publications/position-statements

Upcoming Activities/What’s on the Horizon

- The planning of summer/ fall Congressional Briefings is in process.

Industry Advisory Board (IAB)

Quarterly Highlights:

- On May 4-5, the Industry Advisory Board held its spring meeting, “Energy and Data Science: Insights into Current Technology and Research and ASME’s Thought Leadership Role.” Alex Tapscott, co-author of the Blockchain Revolution: How the Technology Behind Bitcoin is Changing Money, Business, and the World, served as the keynote speaker. Other speakers included: Steve Bitar of ExxonMobil; James Lucier of Capital Alpha Partners LLC;
and David Teten of Hof Capital. The meeting concluded with a facilitated discussion on ASME’s recent “go-to” research that was presented to the BOG in April.

**Upcoming Activities/What’s on the Horizon**

- The planning for the fall IAB meeting will begin shortly.

**K12**

**Quarterly Highlights:**

- As of May 8th, there are over 38K students from 872 schools (58% high school; the balance middle school) on the INSPIRE platform being led by 872 teachers across 46 states.
- Winners of the Future Engineers’ Mars Medical Challenge -- Lewis Greenstein, 18, of Seattle, WA, developed the Dual IV/Syringe Pump; and Lauren Lee, 12, of Cupertino, CA, built the Drug Delivery Device. Participants of different age groups were asked to design a 3d-printable model that could be used for a variety of medical needs. Highlights of this latest challenge can be viewed at https://www.youtube.com/watch?v=X3uW-zmTiiY

**Upcoming Activities/What’s on the Horizon:**

- INSPIRE school site visits scheduled for May 17th (Jos. Cavallaro Middle School, Brooklyn) and in Charlotte, NC this June (date tba)

**Student & Early Career Development (SECD) – Paul Stevenson/Paul Scott**

SECD council is reviewing its processes, communication plan and success metrics as part of the implementation of its strategic plan. The Council will hold a face-to-face meeting in June at the Annual Meeting. Additionally, NC voting and alt. reps were elected and the SVP nomination package has been posted.

**Programs & Philanthropy**

**Quarterly Highlights**

**E-Fests**

- All three E-Fests have now been completed. Initial registration numbers include India – 876; West – 585 (514 with no-shows removed); East – 967 (836 with no-shows removed).
- ASME BOG members participated at E-Fest West and East in variety of capacities including Path Forward/ASME Leadership sessions, competition judges, deliver opening/closing remarks, and to serve as ASME ambassadors.
- E-Fest sponsors included: Altair, ANSYS, Autodesk, Maplesoft, Microsoft, Siemens PLM, Denso, and Eastman Chemical.
- Surveys have been deployed for all three events. A staff wrap up & lessons learned meeting is scheduled for mid-May.
- Photos and video footage was captured for each event. A series of interviews and competitions videos has been posted to asme.org. Postings will continue throughout the coming months.

**HPVC**
Three HPVC events were held in conjunction with the 2017 E-Fest events: Asia Pacific (Mar 3-5) 41 teams; West/UNLV (Mar 17-19) 28 teams; and East/TTU (Apr 21-23) 33 teams. Media/promotion efforts include imbedding a reporter with one of the HPVC teams and filming a video/interviews for future PR use.

IAM3D

Though the IAM3D competition was scheduled to be held at all three festivals, team applicants were lagging. It was successfully held at EFest East/TTU with 8 teams competing. The top three teams from the EFest East competition will be offered travel subsidies to attend the August 2017 IDETC in Cleveland, Ohio.

Student Design Competition, Old Guard

SDC (a robotic pentathlon) and both Old Guard (oral presentation and technical poster) competitions were held at all E-Fest events: Asia Pacific (SDC-25 | Old Guard-57); West/UNLV, (SDC – 15 | OG – 30) and East/TTU (SDC: 48 | OG - 28). Both SDC and OG will be held at the November 2017 IMECE.

Upcoming Activities/What’s on the Horizon?

First-round E-Fest 2018 applications have been sent to select schools in the Middle East, South America (Peru) and will be going out in May to India. US applications will be disseminated by the end of May after the full E-Fest wrap up and lessons learned session has taken place.

The EFX process will undergo additional review and coordination.

Early Career Programs

The FutureME Mini-Talks + Social Meetup is scheduled for Monday, June 26 at the 2017 Power &Energy-ICOPE and Turbo Expo. Program details are posted online and provided for the PE-Turbo Expo combined final program.

Plans to deliver FutureME programming at the IDETC-CIE2017 conference is underway. Preliminary details provided to the conference organizers.


Started releasing additional (bonus material) on YouTube only as a Mini-Talk Q&A Series; two out of eight online video clips posted, recorded at IMECE2016.

Initial steps have been taken, working with ASME Marketing, to reposition the FutureME brand to cleanup and streamline the look and feel, logo and guidelines.

The ECE Programming Committee is working on the following initiatives:

- Developing a plan to rework/transform a select number of existing content module topics known as the ASME PPC (Professional Practice Curriculum) for a new generation of engineers, into an abridged version incorporating real-world applications
- Cybersecurity initiative underway – Exploring opportunities to collaborate with the Florida Center for Cybersecurity and other leads to develop a portfolio of career development content that will shed light on the opportunities that exist for ECEs, profile engineers working in cybersecurity and the grand challenges
Spotlighting Early Career Engineers – Planning is underway to interview ECLIPSE Interns and New Faces Winners; preparation of questions and scheduling
  - The committee is in the process of responding to questions set by the social media manager regarding the level of commitment and the role and responsibilities that come with maintaining a volunteer led ASME Facebook platform.
  - Seven new volunteers have joined the ECEPC Teams (adjunct members) to help accomplish and execute identified ECEPC projects/programming tasks.

Upcoming Activities/What’s on the Horizon

- Establish a FutureME Facebook page led by volunteers to better engage with ECEs, and communicate programming and other opportunities, where they are already interacting with friends, family and colleagues.
- Review/Evolve the FutureME Mini-Talk and Social Meetup program to better serve ECEs
- Continue to develop/roll out FutureME Brand and Content Development strategies and manage ECEPC team member roles and responsibilities.
- Assemble a team(s) to plan the next set of mini-talks for IMECE17conference.
- Approval for new ECEPC Operating Guide at the 2017 Annual meeting.

Community Development

- Community Development Team SRC and SSET Student volunteers participated in the east and west E-Fests to promote volunteering within ASME and SSET, being social media champions, and manned a SSET booth to disseminate SRC election and other materials.
- ASME PI agreed to support ME Today in FY18 by contributing ten written articles.
- The C.T. Main Award, OG Early Career Award and the Outstanding SSA Award recipients have been identified.

Upcoming Activities/What’s on the Horizon

- Determine the next steps for ME Today for FY’18 while identifying a group of volunteers to lead the efforts for topic identification and content development.
- Expand involvement in the E-Fest program; integrating leadership elements for the SLTC program alumni.

Scholarships

Upcoming Activities/What’s on the Horizon

There is the potential to award the following dollar amounts in ASME Scholarships:
$145,000 in undergraduate Scholarships
$29,500 in graduate and Ph.D. Scholarships

One new scholarship for $2,000 has been added to our scholarship list this year. Final decisions will be made by May 18, 2017.
III.  VOLT Academy – Marc Goldsmith/Clare Bruff

Quarterly Highlights:

- VOLT offered the fourth annual Cross-Sector Leadership Development Workshop April 20-22 in New York City. Fourteen participants, representing all four sectors have been attended. Feedback from the workshop has been positive. As an outcome of the event, the participants are working on a proposal that will be shared with the SMC over the summer.
- The 2017-2018 ECLIPSE interns attended an orientation and leadership workshop, along with the current group of interns, April 23-25 in Washington, DC. They also attended the Engineering Public Policy Symposium.
- A briefing for the Presidential Candidates was held in New York City on May 15. A briefing for the candidates for Governor was offered via webinar on May 15.

Upcoming Activities/What’s on the Horizon?

- VOLT will launch a new Communications Program, the VOLT Academy College of Leadership Communications, beginning in June 2017. The program will consists of four parts: (1) communication skills development for the Board and SVPs; (2) training volunteer trainers for communications skills development for the Society’s emerging volunteer leadership; (3) delivery of communications training by volunteer trainers at ASME events; and (4) delivery of communications training via distance and online learning. VOLT will issue an RFP for consultants to conduct parts 1 and 2 in the near future. The anticipated roll-out will be with BOG and SVP training at the Annual Meeting followed by a train-the-trainer workshop.
- VOLT will offer a Leadership Workshop at the Annual Meeting in June. The title of the workshop is “Getting from Ideation to Implementation: Business Planning Essentials for ASME Groups.”

IV. Group Pathways & Support (GPS) / Group Engagement & Transition Team (GETT) – Karen Ohland/Elio Manes

Quarterly Highlights:

- Initiated the FY18 annual plan (budgeting) process with all groups. FY18 Annual plans are due on July 31st. For FY18, the total maximum spending potential for all groups is $5.2M, based on 25% of total available assets of $26M in segregated accounts.
- A total of $14,935 from the FY17 Section Activity Funding program were awarded to 20 sections.
- GPS began hosting webinars for all Group Leadership Teams to provide information on newest ASME initiatives, group management and upcoming volunteer events. The first webinar, intended for all sections (U.S. and international) and technical chapters, took place on May 24, followed by a webinar on June 1 for all technical divisions, research committees and the Old Guard. Webinars were also held in June for all U.S. sections on Consolidated Banking (joint with Treasury Staff).
Upcoming Activities/What’s on the Horizon?

- GPS continues working with the Group Engagement & Alignment Task Force in proposing to the SMC, and eventually COFI and the BOG, rules of engagement for groups, particularly with respect to the finances for Fundraising, Gifts, Honors & Awards, Sponsorships, and Travel Stipends.
- GPS is planning to host webinars for all Group Leadership Teams on September 20, 2017 and January 24, 2018 to cover ASME updates and general administrative tasks.
- GPS is also exploring the feasibility of holding an in-person “Congress of Divisions” training/orientation event in November during the 2017 ASME Congress in Tampa, FL.
- A request for proposals was issued to secure a venue for a Group Volunteer Leadership Training Event in March 2018 at a centrally located U.S. destination. Plans are to partner with VOLT on volunteer best practices issues.
Attached for information is the listing of ASME Fellows elected in CY 2016.

Proposed motion for BOG Action: (if appropriate)
None

Attachment: Yes
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<td>Eduardo</td>
<td>Rincon Mejia</td>
</tr>
<tr>
<td>Yu Ding</td>
<td>Jingang</td>
<td>Yi</td>
</tr>
<tr>
<td>Warren Dixon</td>
<td>Hua</td>
<td>Meng</td>
</tr>
<tr>
<td>Warren Dixon</td>
<td>Nadir</td>
<td>Yilmaz</td>
</tr>
<tr>
<td>Kevin Dowding</td>
<td>Frank</td>
<td>Michell</td>
</tr>
<tr>
<td>Kevin Dowding</td>
<td>Steven</td>
<td>Unikiewicz</td>
</tr>
<tr>
<td>Xiaoping Du</td>
<td>Mohsen</td>
<td>Mosleh</td>
</tr>
<tr>
<td>Xiaoping Du</td>
<td>Dan</td>
<td>Zhang</td>
</tr>
<tr>
<td>Nat Faransso</td>
<td>Anastasia</td>
<td>Muliana</td>
</tr>
<tr>
<td>Nat Faransso</td>
<td>Wenjun</td>
<td>Zhang</td>
</tr>
<tr>
<td>Hsi-Yung Feng</td>
<td>C. Nataraj</td>
<td></td>
</tr>
</tbody>
</table>
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 16, 2017
BOG Meeting Date: June 11, 2017

To: Board of Governors
From: Committee on Honors (COH)
Presented by: Krishna Gupta
Agenda Title: Approved Society Award Listing

Agenda Item Executive Summary: (Do not exceed the space provided)

The Board of Governors delegates to the COH the authority to approve candidates for all Society Level Awards other than Honorary Members and ASME Medalist.

Honorary Members and ASME Medalist are considered by the BOG in Executive Session on June 11.

Attached for information is the listing of the COH approved awards for FY17.

Proposed motion for BOG Action:
None

Attachment: Yes
2017 RECIPIENTS OF ASME HONORS AND AWARDS

Except as noted below, honors and awards will be bestowed at the International Mechanical Engineering Congress & Exposition in Tampa, Florida November 3-9, 2017

**Achievement Awards**

### ADAPTIVE STRUCTURES AND MATERIAL SYSTEMS AWARD

<table>
<thead>
<tr>
<th>Marcelo J. Dapino, Ph.D., Fellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical and Aerospace Engineering</td>
</tr>
<tr>
<td>The Ohio State University</td>
</tr>
<tr>
<td>201 West 19th Avenue</td>
</tr>
<tr>
<td>E543 Scott Laboratory</td>
</tr>
<tr>
<td>Columbus, OH 43210</td>
</tr>
<tr>
<td><strong>For outstanding contributions to the field of adaptive structures including undergraduate and graduate education, fundamental scholarly research, and the successful transition of academic research to industry applications (The ASME 2017 Conference on Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS), September 18-20, 2017, at the Snowbird Ski and Summer Resort, in Snowbird, Utah)</strong>*</td>
</tr>
</tbody>
</table>

### BARNETT-UZGIRIS PRODUCT SAFETY DESIGN AWARD

<table>
<thead>
<tr>
<th>Saeed D. Barbat, Ph.D., Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Leader for Safety</td>
</tr>
<tr>
<td>Ford Motor Company</td>
</tr>
<tr>
<td>41720 Sudbury Court</td>
</tr>
<tr>
<td>Novi, MI 48375 <strong>(home address)</strong></td>
</tr>
<tr>
<td><strong>For pioneering contributions to the automotive industry including the development and implementation of industry-first technologies, computer-aided engineering and test models, industry standards and research that has led to safer vehicles and societal benefits (ASME 2017 International Design Engineering Technical Conferences (IDETC) at the Cleveland Convention Center in Cleveland, Ohio August 6-9, 2017, in Cleveland, Ohio)</strong></td>
</tr>
</tbody>
</table>

### BERGLES-ROHSENOW YOUNG INVESTIGATOR AWARD IN HEAT TRANSFER

<table>
<thead>
<tr>
<th>Austin Minnich, Ph.D., Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caltech</td>
</tr>
<tr>
<td>485 Plymouth Road</td>
</tr>
<tr>
<td>San Diego, CA 91108 <strong>(home address)</strong></td>
</tr>
<tr>
<td><strong>For significant contributions to the theory of quasiballistic heat conduction, the experimental realization of this regime using optical experiments, and the pioneering use of these tools to demonstrate measurements of the mean free path distribution of phonons in solids</strong></td>
</tr>
</tbody>
</table>

### PER BRUEL GOLD MEDAL FOR NOISE CONTROL AND ACOUSTICS

<table>
<thead>
<tr>
<th>Malcolm J. Crocker, Ph.D., Fellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering</td>
</tr>
<tr>
<td>Auburn University</td>
</tr>
<tr>
<td>1418 Wiggins Hall</td>
</tr>
<tr>
<td>Auburn, AL 36849</td>
</tr>
<tr>
<td><strong>For promoting international collaboration, education and the dissemination of knowledge in noise control and acoustics through the formation of professional organizations, the establishment of journals and congress series, and the creation of reference volumes for practitioners</strong></td>
</tr>
</tbody>
</table>

### EDWIN F. CHURCH MEDAL

<table>
<thead>
<tr>
<th>Francis A. Kulacki, Ph.D., Fellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering</td>
</tr>
<tr>
<td>University of Minnesota</td>
</tr>
<tr>
<td>111 Church Street S.E.</td>
</tr>
<tr>
<td>Minneapolis, MN 55455</td>
</tr>
<tr>
<td><strong>For outstanding service and continuous innovative contributions to mechanical engineering education and research; and for pioneering work that led to the introduction and embedding of computer-aided engineering into the undergraduate curriculum, which has had a worldwide impact (at the ASME 2017 Education Summit, April 17-20, 2017 Hyatt Regency Capitol Hill, in Washington D.C.)</strong>*</td>
</tr>
</tbody>
</table>
### DANIEL C. DRUCKER MEDAL

<table>
<thead>
<tr>
<th>David M. Parks, Ph.D., Fellow</th>
<th>For seminal contributions to the formulation of constitutive theories and computational procedures for large inelastic deformation and failure of metals and polymers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering Massachusetts Institute of Technology 77 Massachusetts Avenue Room 1-310 Cambridge, MA 02139-4301</td>
<td></td>
</tr>
</tbody>
</table>

### FLUIDS ENGINEERING AWARD

<table>
<thead>
<tr>
<th>Michael W. Plesniak, Ph.D., Fellow</th>
<th>For seminal contributions to fluids engineering research and education, particularly turbulent flow physics, gas turbine and biomedical applications; and for outstanding service to ASME and the fluid dynamics community (ASME 2017 Fluids Engineering Summer Meeting July 30-August 3, 2017, at the Hilton Waikoloa Village, in Waikoloa, Hawaii)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The George Washington University 1400 Laurel Drive Accokeek, MD 20052 (home address)</td>
<td></td>
</tr>
</tbody>
</table>

### Y.C. FUNG YOUNG INVESTIGATOR AWARD

<table>
<thead>
<tr>
<th>Kristin M. Myers, Ph.D. Member</th>
<th>For pioneering efforts in maternal and fetal health, resulting in a body of experimental and modeling work that drives the area of reproductive biomechanics and the larger field of soft tissues biomechanics (ASME Summer Bioengineering and Biotransport Conference, June 21-24, 2017, at JW Marriott Starr Pass Hotel &amp; Spa, in Tucson, Arizona)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Columbia University 50 West 106th Street Apartment #4D New York, NY 10025 (home address)</td>
<td></td>
</tr>
</tbody>
</table>

### MELVIN R. GREEN CODES AND STANDARDS MEDAL

<table>
<thead>
<tr>
<th>Paul D. Edwards, Fellow</th>
<th>For championing ASME Standards and Certification efforts, particularly the development of new products including the CA-1 Standard–Conformity Assessment Requirements and the Parts Certification Program; and for outstanding contributions through service on numerous ASME technical and conformity assessment committees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice President WECTEC Global Project Services Inc. 19 Pine Hill Road Westport, MA 02790-1291(home address)</td>
<td></td>
</tr>
</tbody>
</table>

### J.P. DEN HARTOG AWARD

<table>
<thead>
<tr>
<th>Kon-Well Wang, Ph.D., Fellow</th>
<th>For lifelong achievements in structural dynamics and vibration; and for outstanding work that has cross-linked multiple fields to synthesize novel adaptive structures with piezoelectric circuitry networks, bistable and metastable elements, and biologically-inspired or nanoscale composites for vibration and control enhancement (ASME 2017 International Design Engineering Technical Conferences (IDETC), August 6-9, 2017, at the Cleveland Convention Center, in Cleveland, Ohio)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering University of Michigan 2350 Hayward Street Ann Arbor, MI 48109-2125</td>
<td></td>
</tr>
</tbody>
</table>
### HEAT TRANSFER MEMORIAL AWARD

#### SCIENCE

| Christoph Beckermann, Ph.D., Fellow  
Department of Mechanical and Industrial Engineering  
University of Iowa  
2402 Seamans Center  
Iowa City, IA 52242 | For pioneering theoretical and experimental research on heat and mass transfer in materials processing with applications in solidification and casting of metals; for mathematical models that are now standard textbook material and in casting simulation software used worldwide; and for research on dendritic growth and the phase-field method that has led to significant advances in the understanding of solidification microstructure formation |
| --- | --- |

#### ART

| Zahid Ayub, Ph.D., P.E., Fellow  
Isotherm, Inc.  
7401 Commercial Boulevard East  
Arlington, TX 76001 | For pioneering work on the effective use of enhanced heat transfer concepts in the field of industrial refrigeration, and for putting innovative heat exchanger designs that use ammonia and other environmentally friendly fluids into use in various industries |
| --- | --- |

#### GENERAL

| Mohamed S. El-Genk, Ph.D., Fellow  
Department of Nuclear Engineering  
University of New Mexico  
MSC01-1120  
1 University of New Mexico  
Albuquerque, NM 87131-0001 | For outstanding contributions to boiling enhancement; immersion cooling of electronics; forced, natural and combined convection in rod bundles; heat pipes and thermosyphons; impinging and swirling jets heat transfer; thermal-hydraulics of nuclear reactors; and thermal management of space nuclear power systems |
| --- | --- |

#### MAYO D. HERSEY AWARD

| James R. Barber, Ph.D., P.E., Fellow  
Department of Mechanical Engineering and Applied Mechanics  
University of Michigan  
2350 Hayward Street  
Ann Arbor, MI 48109-2125 | For the discovery and subsequent analysis of the potentially unstable interaction of frictional heating and thermoelastic distortion leading to nonuniform contact pressure distributions and macroscopic hot spots in sliding; and for significant contributions to contact mechanics and the contact of rough surfaces (2017 STLE 72nd Annual Meeting & Exhibition, May 21-25, 2017, at the Hyatt Regency Atlanta, in Atlanta, Georgia) |
| --- | --- |

#### PATRICK J. HIGGINS MEDAL

| Thomas Charlton Jr.  
Charlton Associates  
120 Lantern Lane  
North Kingstown, RI 02852-5600 (home address) | For exemplary service and leadership in the development of numerous ASME standards on dimensional metrology, and tireless efforts to harmonize national and international efforts (2017 ASME Y14 Engineering Drawing and Related Documentation Practices Standards Committee Meeting, May 6, 2017 in Seattle, Washington) |
<table>
<thead>
<tr>
<th>Medal Name</th>
<th>Recipient Details</th>
<th>Citation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOICHIRO HONDA MEDAL</td>
<td>John E. Dec, Ph.D., Fellow Senior Scientist Sandia National Laboratory 7011 East Avenue Mail Stop 9053 Livermore, CA 94550</td>
<td>For outstanding contributions to automotive engineering through landmark research and publications on diesel combustion and homogeneous charge compression ignition combustion, which have advanced the understanding of combustion processes and significantly influenced internal combustion engine education and engine design.</td>
</tr>
<tr>
<td>INTERNAL COMBUSTION ENGINE AWARD</td>
<td>Paul Miles, Ph.D., Member Manager Sandia National Laboratories P.O. Box 969 Mail Stop 9053 Livermore, CA 94551-0969</td>
<td>For sustained technical accomplishments in the development of optical diagnostics of in-cylinder processes, for improving the understanding of engine fluid mechanics and mixture formation processes, and for vision and leadership in defining and guiding U.S. Department of Energy-funded engine research programs (Internal Combustion Engine Fall 2017 Technical Conference, October 15-18, 2017, at the Doubletree by Hilton Seattle Airport Hotel, in Seattle, Washington).</td>
</tr>
<tr>
<td>WARNER T. KOITER MEDAL</td>
<td>Wei Yang, Ph.D. President of the National Natural Science Foundation of China 83 Shuang-Qing Road Haidian District 100085 Beijing People’s Republic of China</td>
<td>For fundamental contributions in advancing the understanding of crack-tip singularity fields, static and fatigue failure mechanisms for mechatronic reliability, and deformation mechanisms of nanocrystalline metals; and for global leadership in shaping scientific research policy and fostering international collaboration.</td>
</tr>
<tr>
<td>ROBERT E. KOSKI MEDAL</td>
<td>Werner Dieter, Ph.D. Retired Advisory Board Hydac GmbH Sonnenrain 7 97816, Lohr Sackenbach, Germany</td>
<td>For pioneering efforts in Germany that have advanced the fluid power industry worldwide; and for demonstrated leadership in growing an engineering and manufacturing enterprise (2017 ASME/BATH Symposium on Fluid Power and Motion Control (FPMC) October 16-19, 2017, at the Lido Beach Resort, in Sarasota, Florida).</td>
</tr>
<tr>
<td>ALLAN KRAUS THERMAL MANAGEMENT MEDAL</td>
<td>Masaru Ishizuka, Ph.D., Fellow President Mechanical Systems Engineering Department Toyama Prefectural University 5180 Kurokawa, Imizu City Toyama 939 0398 Japan</td>
<td>For pioneering the thermal management of electronic equipment, particularly consumer electronics subjected to natural convection; and for significant contributions through leadership roles in academia and professional societies.</td>
</tr>
</tbody>
</table>
**FRANK KREITH ENERGY AWARD**

| Gershon Grossman, Sc.D., Fellow  
Department of Mechanical Engineering  
Technion–Israel Institute of Technology  
Haifa 32000  
Israel | For more than four decades of significant contributions to energy systems through teaching, research and development; and for over 250 refereed journal articles and conference papers on topics including absorption systems, solar heating, cooling and air conditioning |

**JAMES N. LANDIS MEDAL**

| Yassin A. Hassan, Ph.D., P.E., Fellow  
Department of Nuclear Engineering  
Texas A&M University  
Mail Stop 3133  
College Station, TX 77843-3133 | For outstanding contributions to the operation of nuclear power plants through long-term efforts to resolve Generic Safety Issue 191–Assessment of Debris Accumulation on Pressurized Water Reactor Sump Performance; for tireless efforts educating engineering students and early career engineers; and for dedicated service to the engineering profession (Tuesday, June 27, 2017, at the Speedway Club at Charlotte Motor Speedway, during the 2017 ASME Power Energy and Exhibition Conference, in Concord, North Carolina) |

**BERNARD F. LANGER NUCLEAR CODES AND STANDARDS AWARD**

| Kevin Ennis  
Retired  
53 North Grand Avenue  
Poughkeepsie, NY 12603-4401 (home address) | For outstanding service as long-term director of ASME Nuclear Codes and Standards, particularly for promoting an environment that facilitated new product development and acceptance worldwide (ASME BPV Code Week, August 6-11, 2017, in Minneapolis, MN) |

**GUSTUS L. LARSON MEMORIAL AWARD**

| Evelyn N. Wang, Ph.D., Fellow  
Mechanical Engineering Department  
Massachusetts Institute of Technology  
77 Massachusetts Avenue  
Room 3-461B  
Cambridge, MA 02139-4307 | For outstanding achievements in mechanical engineering within 10 to 20 years following graduation |

**H.R. LISSNER MEDAL**

| Gerard A. Ateshian, Ph.D., Fellow  
Department of Mechanical Engineering  
Columbia University  
500 W 120th Street, Mail Code 4703  
New York, NY 10027 | For outstanding contributions to theoretical formulations and experimental investigations of cartilage mechanics and tissue engineering, and for pivotal contributions to the implementation and dissemination of open-source finite element computational tools for the biomechanical analysis of living tissues (ASME Summer Bioengineering and Biotransport Conference, June 21-24, 2017, at JW Marriott Starr Pass Hotel & Spa, in Tucson, Arizona) |
### MACHINE DESIGN AWARD

<table>
<thead>
<tr>
<th>S.V. Sreenivasa, Ph.D., Member</th>
<th>For outstanding leadership in creating new classes of machines that are revolutionizing practical nanotechnologies in electronics, memory and display devices, and energy and healthcare industries; and for educating and inspiring an entire generation of machine designers (Design Engineering Technical Conferences (IDETC/CIE), August 6-9, 2017, in Cleveland, Ohio)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The University of Texas at Austin NASCENT Center, Building 160 10100 Burnet Road J.J. Pickle Research Campus Austin, TX 78758</td>
<td></td>
</tr>
</tbody>
</table>

### CHARLES T. MAIN STUDENT LEADERSHIP AWARD

#### GOLD

<table>
<thead>
<tr>
<th>Gemma F. Eslava Iruegas, Member</th>
<th>For dedicated service as founder and chair of the ASME Student Section at the Aguascalientes campus of Universidad Panamericana and as student regional chair-Mexico, overseeing more than 25 Student Sections; for supporting various ASME startup sections; and for promoting ASME as well as SOMIM, the Mexican Society of Mechanical Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. Benedicto XVI coto 215-58 San Gerardo Aguascalientes Ags, Mexico 20342 (home address)</td>
<td></td>
</tr>
</tbody>
</table>

#### SILVER

<table>
<thead>
<tr>
<th>Jithu Paulose, Member</th>
<th>For contributions to ASME ranging from service as secretary, convener and chair of the Student Section at the Federal Institute of Science and Technology; to assisting more than 25 university sections as zonal representative for the Student District Operating Board, India, Asia-Pacific</th>
</tr>
</thead>
<tbody>
<tr>
<td>Puthenpurayil (H) Oliyappuram Koothattukulam Eranakulam Kerala, India 686662 (home address)</td>
<td></td>
</tr>
</tbody>
</table>

### M. EUGENE MERCHANT MANUFACTURING MEDAL OF ASME/SME

<table>
<thead>
<tr>
<th>Michael F. Molnar, Fellow</th>
<th>For vision and leadership in establishing Manufacturing USA, the national network for manufacturing innovation that is dedicated to enhancing industrial competitiveness and economic growth, and strengthening U.S. national security (2017 SME Awards Gala, April 30, 2017, in Chicago, Illinois)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director, Advance Manufacturing National Program Office National Institute of Standards and Technology 100 Bureau Drive Mail Stop 4700 Gaithersburg, MD 20899</td>
<td></td>
</tr>
</tbody>
</table>

### VAN C. MOW MEDAL

<table>
<thead>
<tr>
<th>Richard R. Neptune, Ph.D., Member</th>
<th>For outstanding contributions to the field of bioengineering through teaching, as a leading researcher in developing methods to help individuals with movement disabilities, and through service to the bioengineering community (ASME Summer Bioengineering and Biotransport Conference, June 21-24, 2017, at JW Marriott Starr Pass Hotel &amp; Spa, in Tucson, Arizona)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering The Department of Texas at Austin 204 E. Dean Keeton Street Mail Stop C2200 Austin, TX 78712-1591</td>
<td></td>
</tr>
</tbody>
</table>
### NADAI MEDAL

<table>
<thead>
<tr>
<th>John A. Rogers, Ph.D.</th>
<th>For fundamental and applied contributions to semiconductor nanomaterials for high performance electronics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Materials Science and Engineering&lt;br&gt;Northwestern University&lt;br&gt;2145 Sheridan Road&lt;br&gt;Evanston, IL 60208</td>
<td></td>
</tr>
</tbody>
</table>

### SIA NEMAT-NASSER EARLY CAREER AWARD

<table>
<thead>
<tr>
<th>Yashashree Kulkarni, Ph.D., Member</th>
<th>For pioneering work on twin boundaries in crystalline materials and their role in next-generation nanostructured materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering&lt;br&gt;University of Houston&lt;br&gt;4726 Calhoun Road&lt;br&gt;Houston, TX 77204</td>
<td></td>
</tr>
</tbody>
</table>

### RUFUS OLDENBURGER MEDAL

<table>
<thead>
<tr>
<th>Miroslav Krstic, Ph.D., Fellow</th>
<th>For fundamental and continuing contributions to nonlinear, adaptive and delay systems that have led to new theories, methodologies and industrial impact.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical and Aerospace Engineering&lt;br&gt;University of California, San Diego&lt;br&gt;9500 Gilman Drive&lt;br&gt;Mail Code 0411&lt;br&gt;La Jolla, CA 92093</td>
<td>(ASME 2017 Dynamic Systems and Control Conference (DSCC), October 11-13, 2017, at the Sheraton Tysons Hotel, in Tysons Corner, Virginia)</td>
</tr>
</tbody>
</table>

### OLD GUARD EARLY CAREER AWARD

<table>
<thead>
<tr>
<th>Caitlin Correll, P.E., Member</th>
<th>For inspiring young people to explore engineering as a profession through ASME service at the local and enterprise levels, personal growth in the entertainment industry, public advocacy and community service</th>
</tr>
</thead>
<tbody>
<tr>
<td>249 Sonoma Valley Circle&lt;br&gt;Orlando, FL 32835-5140 (home address)</td>
<td></td>
</tr>
</tbody>
</table>

### Runner-Up

<table>
<thead>
<tr>
<th>Mohammad E. Haque, Member</th>
<th>For founding the ASME Jamia Millia Islamia Student Section and promoting fly ash management in India; and for inspiring young students to pursue careers in mechanical engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hunch Ventures&lt;br&gt;Unit 005, Plot 09, Ground Floor, Copia Corporate&lt;br&gt;Copia Corporate Suites&lt;br&gt;Jasola, New Delhi&lt;br&gt;India 110025</td>
<td></td>
</tr>
</tbody>
</table>

### OUTSTANDING STUDENT SECTION ADVISOR AWARD

<table>
<thead>
<tr>
<th>Nadir Yilmaz, Ph.D., P.E., Member</th>
<th>For outstanding service as advisor for the ASME Student Section at the New Mexico Institute of Mining and Technology including promoting the Society among students and young engineers, which has led to drastic improvements in activities within the local ASME community</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering&lt;br&gt;Howard University&lt;br&gt;2300 6th Street NW&lt;br&gt;Washington, DC 20059</td>
<td></td>
</tr>
</tbody>
</table>
### PERFORMANCE TEST CODES MEDAL

| Thomas K. Kirkpatrick, Member |
| Director of Products & Services |
| McHale & Associates, Inc. |
| 12605 Buttermilk Road |
| Knoxville, TN 37932 (home address) |

For outstanding leadership contributions to performance test codes, particularly testing programs for gas turbine inlet air-conditioning equipment and overall plant performance; and for service on various other PTC committees *(2017 ASME Turbo Expo: Turbomachinery Technical Conference & Exposition, June 26-30, 2017, at the Charlotte Convention Center, in Charlotte, North Carolina)*

### PI TAU SIGMA GOLD MEDAL

| Shannon K. Yee, Ph.D., Member |
| George W. Woodruff School of Mechanical Engineering |
| Georgia Institute of Technology |
| 771 Ferst Drive |
| Atlanta, GA 30332 |

For outstanding achievements in mechanical engineering within 10 years of graduation

### S.Y. ZAMRIK PRESSURE VESSELS AND PIPING MEDAL

| Mahendra D. Rana, P.E., Fellow |
| Consultant |
| 31 Spinnaker Drive |
| Niantic, CT 06357 (home address) |

For significant contributions to the state of the art of cryogenic storage vessels and fracture control for pressure vessels; and for substantial service to ASME’s Pressure Vessels and Piping Division as session developer, technical program representative, and vice chair and chair of the Codes and Standards Technical Committee *(2017 ASME Pressure Vessels & Piping Conference, July 16-20, 2017, at the Hilton Waikoloa Village, in Waikoloa, Hawaii)*

### CHARLES RUSS RICHARDS MEMORIAL AWARD

| Jian Cao, Ph.D., Fellow |
| Department of Mechanical Engineering |
| Northwestern University |
| 2145 Sheridan Road |
| Evanston, IL 60208 |

For outstanding achievements in mechanical engineering for 20 years or more following graduation

### RALPH COATS ROE MEDAL

| Adrian Bejan, Ph.D., Fellow |
| Department of Mechanical Engineering |
| Duke University |
| 148-A Hudson Hall |
| Box 90300 |
| Durham, NC 27708-0300 |

For permanent contributions to the public appreciation of the pivotal role of engineering in an advanced society through outstanding accomplishments as an engineering scientist and educator, renowned communicator and prolific writer

### SAFETY CODES AND STANDARDS MEDAL

| David McColl, Member |
| Senior Manager |
| World Wide Codes Development |
| Otis Elevator Company |
| 1655 The Queensway East |
| Mississauga, Ontario L4X 2Z5 Canada |

For outstanding leadership in the improvement of safety standards within A17–Elevators and Escalators and in the development of revisions to the A17.1 Safety Code to include requirements for occupant evacuation operation for elevators *(2017 A17 Committee meeting, October 6, 2017, in Toronto, Canada)*
### R. Tom Sawyer Award

Alan H. Epstein, Ph.D., Fellow  
Vice President  
Technology and Environment  
Pratt & Whitney  
400 Main Street  
Mail Stop 162-24 East  
Hartford, CT 06108

For outstanding and sustained contributions to gas turbine research, and to technology implementation and strategy for a major engine manufacturer; for fostering excellence in the ASME gas turbine community; and for providing unique opportunities and guiding students to achieve success in the gas turbine industry and academia *(ASME TurboExpo, Turbomachinery Technical Conference & Exposition, June 26-30, 2017, Charlotte Convention Center, in Charlotte, North Carolina)*

### Milton C. Shaw Manufacturing Research Medal

Shaochen Chen, Ph.D., Fellow  
University of California, San Diego  
6271 Sagebrush Bend Way  
San Diego, CA 92130 *(home address)*

For seminal contributions to the science and technology of manufacturing processes in the areas of 3-D printing, bioprinting and nanomanufacturing *(ASME International Manufacturing Science and Engineering Conference, (MSEC2017) June 4-8, 2017, at the University of Southern California, in Los Angeles, California)*

### Ben C. Sparks Medal

Steven W. Beyerlein, Ph.D., Member  
University of Idaho  
817 East Seventh Street  
Moscow, IN 83843 *(home address)*

For outstanding service leading the award-winning, multidisciplinary senior capstone design course at the University of Idaho; for dedicated work on the university's Engineering Expo, one of the largest design expositions in the Pacific Northwest; and for research on engineering education and design pedagogy *(ASME 2017 Education Summit, April 17-20, 2017 at the Hyatt Regency Capitol Hill, in Washington, D.C.)*

### Ruth and Joel Spira Outstanding Design Educator Award

Gul E. Okudan Kremer, Ph.D., Fellow  
Department of Industrial and Manufacturing Systems Engineering  
Iowa State University  
3004 Black Engineering Building  
2529 Union Drive  
Ames, IA 50011-2030

For outstanding achievements in design curriculum development; sustained contributions to workforce development through design education and research; and exceptional leadership within ASME's Design Engineering Division, particularly in rebuilding the design education community *(ASME 2017 International Design and Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE) August 6-9, 2017, at the Huntington Convention Center in Cleveland, Ohio)*

### Spirit of St. Louis Medal

Charbel Farhat, Ph.D., Fellow  
Stanford University  
566 Glenbrook Drive  
Palo Alto, CA 94306 *(home address)*

For sustained theoretical and computational research contributions in the broad field of fluid-structure interaction that have been applied to the solution of mission critical problems in aeronautical, automotive, marine, mechanical and naval engineering
J. HALL TAYLOR MEDAL

| Ronald W. Haupt, Ph.D., Fellow President Pressure Piping Engineering Associates, Inc. 291 Puffin Court Foster City, CA 94404-1318 (home address & business) | For leadership and distinguished service in the advancement and recognition of ASME codes and standards for pressure equipment, and for technical contributions and eminent achievements in the standardization of piping and pressure vessel design and construction |

ROBERT HENRY THURSTON LECTURE AWARD

| Mohammed Zikry, Ph.D., Fellow Department of Mechanical and Aerospace Engineering North Carolina State University Raleigh, NC 27695-0001 | For pioneering contributions to mechanics of materials, computational mechanics, multiscale modeling, materials science and fracture mechanics; and for significant and groundbreaking interdisciplinary contributions related to metals, alloys, composites and biomaterials at physical scales ranging from nano to micro |

TIMOSHENKO MEDAL

| Viggo Tvergaard, Ph.D. Department of Mechanical Engineering Technical University of Denmark Nils Koppels Allé, Building 404 2800 Kgs. Lyngby Denmark | For major contributions to the development and application of models for porous ductile solids through the transformation of Gurson's phenomenological framework into a powerful theoretical and numerical tool applicable to the study of full-size ductile rupture problems |

GEORGE WESTINGHOUSE GOLD MEDAL

GOLD

| Alan Williams, Ph.D. School of Process, Environmental and Materials Leeds University, Energy Research Institute Energy Building Leeds, LS2 9JT United Kingdom | For novel research contributions to the fundamental understanding of the formation and reduction of pollutants in fossil fuel flames, which has resulted in cleaner burning with enhanced efficiency; and for providing enriched training and education to engineers, and outstanding service to industry and government |

SILVER

| Frédéric Villeneuve, Ph.D., Member Siemens Power and Gas 4400 Alafaya Trail Orlando, FL 32826 (home address) | For outstanding contributions to the development and application of advanced design methods for gas turbines |

SAVIO L-Y. WOO TRANSLATIONAL BIOMECHANICS MEDAL

<p>| Arthur Erdman, Ph.D., P.E., Fellow Department of Mechanical Engineering University of Minnesota 1957 3rd Street, SW New Brighton, MN 55112 (home address) | For four decades of leadership in medical device design, translating biomechanical engineering concepts to devices that improve the lives of patients in a wide range of medical fields; and for outstanding service to the bioengineering community through the training of students, through the initiation and chairing of meetings, and as a founding editor of the Journal of Medical Devices (ASME Summer Bioengineering and Biotransport Conference, June 21-24, 2017, at JW Marriott Starr Pass Hotel &amp; Spa, Tucson, AZ) |</p>
<table>
<thead>
<tr>
<th>Yu-Tai Lee, Ph.D., P.E., Fellow</th>
<th>For seminal contributions to the development of computational methods for the analysis and innovative design of U.S. Navy submarine propulsion pumps and shipboard turbomachinery; and for distinguished service to ASME including the mentoring of future naval engineers and conference newcomers</th>
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<tbody>
<tr>
<td>Senior Scientist</td>
<td></td>
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<tr>
<td>Naval Surface Warfare Center</td>
<td></td>
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<tr>
<td>409 Ole Dirt Road</td>
<td></td>
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<tr>
<td>Great Falls, VA 22066 (home address)</td>
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## LITERATURE AWARDS

### BLACKALL MACHINE TOOL & GAGE AWARD

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<tr>
<th>Name</th>
<th>Institution</th>
<th>Address</th>
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<tbody>
<tr>
<td>Hai Trong Nguyer</td>
<td>Department of Material Cutting</td>
<td>Room 202, Building C8, No. 1, Dai Co Viet Street, Hanoi City, Vietnam</td>
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<tr>
<td></td>
<td>and Industrial Instruments</td>
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<td>Hanoi University of Science and Technology</td>
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<tr>
<td>Hui Wang, Ph.D.</td>
<td>Florida State University</td>
<td>Apartment # 254, Tallahassee, FL 32303 (home address)</td>
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<td>Member</td>
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<tr>
<td>Bruce L. Tai, Ph.D.</td>
<td>Texas A&amp;M University</td>
<td>3123 TAMU, College Station, TX 77843</td>
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<td>Member</td>
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<tr>
<td>Jie Ren, Member</td>
<td>Florida State University</td>
<td>2525 Pottsdamer Street, Building A, Suit A231, Tallahassee, Florida 32310</td>
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<td>Member</td>
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<tr>
<td>S. Jack Hu, Ph.D.</td>
<td>University of Michigan at Ann Arbor</td>
<td>2350 Hayward Street, Ann Arbor, MI 48109-2125</td>
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<tr>
<td></td>
<td>Fellow</td>
<td></td>
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<tr>
<td>Albert J. Shih, Ph.D.</td>
<td>University of Michigan at Ann Arbor</td>
<td>2350 Hayward Street, Ann Arbor, MI 48109</td>
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<td></td>
<td>P.E., Fellow</td>
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For the paper titled "High-Definition Metrology Enabled Surface Variation Control by Cutting Load Balancing" (MSEC2017) June 4-8, 2017, at the University of Southern California, in Los Angeles, California

### FREEMAN SCHOLAR AWARD

<table>
<thead>
<tr>
<th>Name</th>
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<th>Address</th>
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<tbody>
<tr>
<td>S. Balachandar, Ph.D.</td>
<td>University of Florida</td>
<td>3419 SW 93rd Way, Gainesville, FL 32608 (home address)</td>
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<td></td>
<td>Fellow</td>
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### GAS TURBINE AWARD

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<tr>
<th>Ho-On To, Member</th>
<th>University of Cambridge Whittle Laboratory 1 JJ Thompson Avenue Cambridge CB3 0DY United Kingdom</th>
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<tr>
<td>Robert J. Miller, Ph.D.</td>
<td>University of Cambridge 32 Maids Causeway Cambridge CB58DD United Kingdom (home address)</td>
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### MELVILLE MEDAL

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<tr>
<th>Qiang Ma</th>
<th>School of Aerospace Engineering Tsinghua University Mong Man-wei Science and Technology Building N506 Beijing 100084 China</th>
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<tbody>
<tr>
<td>Yihui Zhang, Ph.D., Member</td>
<td>School of Aerospace Engineering Tsinghua University Beijing 100084 China</td>
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For the paper titled “Mechanics of Fractal-Inspired Horseshoe Microstructures for Applications in Stretchable Electronics”

### EDWARD F. OBERT AWARD

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<tr>
<th>Luca Rivadossi, Ph.D.</th>
<th>Department of Mechanical and Industrial Engineering Università di Brescia Via Branze 38 25123 Brescia Italy</th>
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<tr>
<td>Gian Paolo Beretta, Ph.D., P.E., Fellow</td>
<td>Department of Mechanical and Industrial Engineering Università di Brescia Via Branze 38 25123 Brescia Italy</td>
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For the paper titled “Validation of the Asvdadd Constraint Selection Algorithm for Effective Rcce Modeling of Natural Gas Ignition in Air ”

### PRIME MOVERS AWARD

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<tr>
<th>Darren M. Nightingale, Member</th>
<th>Director of Engineering Thermal Engineering International 3416 Charlemagne Avenue Long Beach, CA 90808 (home address)</th>
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For the paper titled “Guidelines and Techniques for the Effective Control of Condensate Dissolved Oxygen in Steam Surface Condensers” (Tuesday, June 27, 2017, at the Speedway Club at Charlotte Motor Speedway, during the 2017 ASME Power Energy and Exhibition Conference, in Concord, North Carolina)
**WORCESTER REED WARNER MEDAL**

| Michael P. Païdoussis, Ph.D., P.E., Fellow | For seminal contributions to the permanent literature of engineering research through highly praised books on fluid-structure interaction in axial and cross flows, and numerous breakthrough papers over the past 50 years |
| Department of Mechanical Engineering | |
| Mcgill University | |
| 817 Sherbrooke Street West | |
| Montreal QC H3A 0C3 | |
| Canada | |

**ARTHUR L. WILLISTON MEDAL**

**PAPER A**

| Austin Kraus, Member | For the paper titled “Safe Growth of Autonomous Systems Through International Regulation” |
| University of Evansville | |
| 321 Blaze Boulevard | |
| Baldwin City, KS 66006-4177 (home address) | |

**PAPER B**

| Joseph R.H. Schaadt Member | For the paper titled “The Necessary Role of Reasonable Regulations in Emerging Autonomous Systems” |
| University of Evansville | |
| 775 Cascade Drive | |
| Sunnyvale, CA 94087-3157 (home address) | |