Attendance during the open session was as follows:

**Board of Governors**
- **President:** Charla K. Wise
- **President-Elect:** Said Jahanmir
- **Governors:** Stuart Cameron, Bryan A. Erler, Caecilia Gotama, Robert E. Grimes, Mahantesh Hiremath, Karen J. Ohland, Sriram Somasundaram, Mary Lynn Reallf, William J. Wepfer
- **Governors-Elect:** Joe Fowler, Michael Molnar, Karen Thole

**Other Officers**
- **Senior Vice Presidents:** Sam Korellis, Standards and Certification Sector
- **Senior Vice Presidents-Elect:** Kalan Guiley, Public Affairs and Outreach
- **Secretary and Treasurer:** James Coaker
- **Executive Director:** Thomas Costabile
- **Assistant Secretary:** John Delli Venneri
- **Assistant Treasurer:** William Garofalo
- **Absent:** Keith Roe (Immediate Past President)

**Committee Chairs**
- **Marc Goldsmith** Committee of Past Presidents
- **John Goossen** Strategy Advisory Committee
- **John Mulvihill** Group Engagement Committee
- **Fred Stong** Committee on Organization and Rules

**Other Guests**
- **Frank Adamek** Self Employed
- **Mahesh Aggarwal** Chair-Elect, Diversity and Inclusion Strategy Committee
- **Mike Aller** Energy Florida/CAPE
- **Judith Bamberger** Pacific Northwest/National Lab
- **Emily Boyd** Washington University
Betty Bowersox Retired; COFI member
Richard Cowan Georgia Tech
Julie Chen University of Massachusetts Lowell
Jennifer Cooper Boeing
Pasquale Dell ‘Aquila PCC
Warren DeVries University of Maryland, Baltimore County
Nicole Dyess ValuD
Gene Feigel Past President, 2005-2006
Brandon Graham Member, Community Development Team
Tom Gittings GSI
Julio Guerrero Past President, 2015-2016
Jonathan Jennings ECLIPSE Intern for the Board of Governors 2017-2018
Colleen Kennedy PECO- Astronics
Richard Laudenat Past Governor, 2012-2015
Twishansh Mehta Chair, Nominating Committee
Jacqueline O’Conner Penn State University
George Papadopoulos Innoveering, LLC
Tom Pestorius Retired, Chair of ASME Foundation
Jay Raja University of North Carolina, Charlotte
Anita Rebarchaak Pratt & Whitney
Bob Simmons Past President, 2010-2011
Bob Sims Past President, 2014-2015
Nathan Taylor Harvard
Nishant Trivedi ECLIPSE Intern for Standards and Certification 2017-2018
Steven Wallace Boeing
Mark Webster Pflow Industries
Ed Whittle Bureau Veritas
Sam Zamrik Past President, 2007-2008

Staff
Clare Bruff Senior Manager, Executive Operations
Michael Cowan Director, Public Information
Philip DiVietro Managing Director, Publishing
John Falconi Senior Director, Media Content & Strategic Relationships
Elena Gerstmann Deputy, Executive Operations
Tim Graves Director, Technical Conferences & Events
John Hasselmann Managing Director, Government Relations
Josh Heitsenrether Managing Director, Marketing
John Koehr Managing Director, Technology Advancement and Business Development
Elio Manes Director, Communities and Services
Jeff Patterson Chief Operating Officer
Allan Pratt Project Director, Executive Office
Claire Ramspeck Managing Director, Standards & Certification
Laurel Raso Associate Executive Director, Human and Capital Resources
Luis Rodriguez Associate Executive Director, Technology Services
Karen Russo Project Manager, Executive Office
Brandes Smith Senior Program Manager, Students & Career Development
David Soukup Managing Director, Governance
Elizabeth Sumpter Administrator, Board Operations
Matthew Vazquez Manager, Conformity Assessment
1. **Opening of the Meeting**

1.1 **Call to Order:** On June 3, 2018, a meeting of the Board of Governors of the American Society of Mechanical Engineers was held at the JW Marriott Parq Vancouver hotel in Vancouver, BC. A quorum was present, and the meeting was called to order by President Wise at 1:00 PM Pacific Daylight Time.

1.2 **Adoption of the Agenda:** The Board voted to adopt the agenda as circulated on May 18, 2018.

1.3 **Announcements, Recognitions, and Celebrations:** President Wise welcomed all to the meeting and acknowledged the current ECLIPSE intern, Jonathan Jennings, and all present Past Presidents Julio Guerrero, Gene Feigel, Bob Simmons, Bob Sims, Reggie Vachon, and Sam Zamrik. President Wise recognized recent milestones by ASME volunteers and staff by giving those in attendance a chance to acknowledge and celebrate significant events.

1.4 **President’s Remarks:** President Wise discussed some of her recent activities including her attendance at the Offshore Technology Conference (OTC) in Houston. She mentioned how valuable it was for her to attend this impressive and successful conference. She acknowledged the work of the Tiger Team Phase II and thanked Karen Ohland and Bill Wepfer for their hard work and dedication. She also thanked all the ASME team members who contributed towards this effort.

President Wise expressed her gratification that the Executive Director search is officially completed and noted her satisfaction with the selection of Thomas Costabile as the new Executive Director and looks forward to working with Tom as she transitions into her role as Immediate Past President. She thanked the Executive Director Recruitment Committee and Laurel Raso for their outstanding hard work. (Appendix 1.4.)

1.5 **Executive Director’s Remarks:** Tom Costabile discussed how he is 14 days into the 100 Day transition plan he presented to the Board at his second interview. He mentioned that he is pleased to work with ASME Staff who are dedicated, passionate and professional. He mentioned his discussions with Governors, other volunteers, the Presidential Team, EMT, and other staff, to date, have been focused on major areas. He identified these major areas as the relationship between volunteers and staff, membership, and ASME Foundation. Tom discussed his current assessment that there are no showstopper that require immediate fixes. (Appendix 1.5.)

1.6 **Introductions:** President Wise continued with 2-minute introductions that she began at the June 2017 Board meeting. RuthAnn Bigley, Josh Heitsenrether, and David Soukup introduced themselves to the audience. (Appendix 1.6)

1.7 **Report on Closed Session:** Jim Coaker, Secretary/Treasurer, reported on the Closed Session held on during the morning of June 3, 2018. The Board:

- Approved the Selection of Honorary Members and ASME Medalist
- Approved the Supplemental Executive Retirement Plan (SERP)
- Approved the Consent Proposed Appointments
• Received FY18 Q3 Incentive Objective Report
• Had a discussion with Executive Director
• Approved ASME Foundation Funding
• Received Volunteer/Staff Collaboration Survey
• Approved a recommendation from the Tiger Team on Committees Reporting to the Board of Governors- Phase II
• Approved Proposed Appointments (The names of those appointed were shown on the screens in front of the room and are included in Appendix 1.7.

1.8 Consent Items for Action:

The Board voted to approve the following items on the consent agenda:

1.8.2. Approval of Minutes from the April 20, 2018 Meeting

1.8.3. Editorial Changes to By-Laws for Second Reading and Approval: Elimination of Capitalization of the Word officer
(Appendix 1.8.3)

1.8.4. By-Law B4.2.2.2 for Second Reading and Approval: Changes to the Nominating Committee Composition
(Appendix 1.8.4.)

1.8.5. Revision to ASME By-Laws B5.2: Committees reporting to Board of Governors
(Appendix 1.8.5.)

1.8.6. By-Law B5.2.5.4 for Second Reading and Approval: Retirement Plan Committee Change
(Appendix 1.8.6.)

1.8.7. By-Law B5.5 for Second Reading and Approval: Technical Committee on Publications and Communications
(Appendix 1.8.7.)

1.8.8. By-Law B5.7 for Second Reading and Approval: Student and Early Career Development Sector
(Appendix 1.8.8)

2. Open Session Agenda Items

2.1 Deep Dive: Technical Events and Content Sector: Rick Marboe and Philip DiVietro provided detail on TEC products and services with particular focus on the publishing function and knowledge dissemination at ASME. A discussion followed. (Appendix 2.1)

2.2 FY18 Integrated Operating Plan: Jeff Patterson provided a brief overview of the projected full-year-end results for the eleven FY18 IOP One-Year Operating Goals. (Appendix 2.2.)

2.3 Financial Update: Bill Garofalo began his remarks with an acknowledgement of and special thank you to Jim Coaker, who is completing his term as ASME’s Secretary and Treasurer. He then presented a high-level review to the Board on changes since the April Board of Governors financial update. (Appendix 2.3.)
2.4 **SAC Discussion: Membership:** Josh Heitsenrether provided the Board with information about current trends in membership. It was noted that a similar presentation was given to the Strategy Advisory Committee in February. John Goossen led a discussion with the Board. (Appendix 2.4.)

2.5 **Report from 2018 Strategy Advisory Committee:** John Goossen provided an overview to the Board on the committee’s accomplishments in FY18. He also provided recommendations for the Board to consider in FY19. (Agenda Appendix 2.5.)

2.6 **Status Report on July 2017 Board Retreat:** Elena Gerstmann provided a status report on action items from the July 2017 Board retreat. (Appendix 2.6.)

2.7 **Comments from Outgoing Secretary/Treasurer, Governors, Senior Vice Presidents, and ECLIPSE Intern:** Jim Coaker, Bryan Erler, Caecilia Gotama, Jonathan Jennings, Sriram Somasundaram, Jonathan Jennings, Paul Stevenson, and Tim Wei shared their outgoing remarks. Each individual expressed their gratitude of serving on the Board in their designated role.

2.8 **Reflections on Past Year:** Charla Wise thanked the volunteers, ASME staff, Chairs of Committees, and Past Presidents for their outstanding work and support throughout her year. She expressed her gratitude to everyone who helped her align the Board in the right direction. She mentioned a number of ASME's accomplishments including; supporting the IOP to make our strategy come alive; launching the Strategy Advisory Committee; and successfully creating, as a team, the Enterprise planning document used throughout ASME. President Wise also expressed her appreciation for the financial and legal functions within ASME. Lastly, she remarked how she wanted to end, as she started with her statement, “continuity, as we move forward together.” The Board and all those in the room responded to her final remarks with a standing ovation.

3. **New Business:** No items.

4. **Open Session Information Items:**

   4.1. **Sector Management Committee Report**
       (Appendix 4.1.)

   4.2. **CY17 Fellows Listing**
       (Appendix 4.2.)

   4.3. **Approved Society Awards Listing**
       (Appendix 4.3.)

   4.4. **Dates of Future Meetings**

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<th>LOCATION</th>
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<tr>
<td>July 25-27, 2018 (a)</td>
<td>Wednesday-Friday</td>
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<tr>
<td>November 10, 2018 (a)</td>
<td>Saturday</td>
<td>8:30 AM- 4:30 PM</td>
<td>Pittsburgh, PA</td>
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</table>
5. **Adjournment:** The meeting adjourned on Sunday, June 3, 2018 at 4:27 PM Pacific Daylight Time.

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James Coaker  
Secretary

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**Appendices**

Appendix 1.1. June 3, 2018 BOG Agenda  
Appendix 1.4. President’s Remarks  
Appendix 1.5. Executive Director’s Remarks  
Appendix 1.6. Introductions  
Appendix 1.7. Report on Closed Session: Approved Proposed Appointments  
Appendix 1.8.3. Editorial Changes to By-Laws for Second Reading and Approval: Elimination of  
Appendix 1.8.4. By-Law B4.2.2.2 for Second Reading and Approval: Changes to Nominating Committee Composition  
Appendix 1.8.5. Revision to ASME By-Laws B5.2: Committees reporting to Board of Governors  
Appendix 1.8.6. By-law B5.2.5.4. for Second Reading and Approval: Retirement Plan Committee Change  
Appendix 1.8.7. By-Law B5.5. for Second Reading and Approval: Technical Committee Publications and Communications  
Appendix 1.8.8. By-Law B5.7 for Second Reading and Approval: Student and Early Career Development Sector  
Appendix 2.1. Deep Dive: Technical Events and Content Sector  
Appendix 2.2. FY18 Integrated Operating Plan  
Appendix 2.3. Financial Update  
Appendix 2.4. SAC Discussion: Membership  
Appendix 2.5. Report from 2018 Strategy Advisory Committee  
Appendix 2.7. Comments from Outgoing Secretary/Treasurer, Board Members and ECLIPSE Intern  
Appendix 2.8. Reflections on the Past Year  
Appendix 4.1 Sector Management Committee Report  
Appendix 4.2. CY17 Fellows Listing  
Appendix 4.3. Approved Society Awards Listing
DRAFT AGENDA
BOARD OF GOVERNORS

Day & Time: Sunday, June 3, 2018
1:00 PM – 4:30 PM
Location: JW Marriott Parq Vancouver Hotel
Parq Salon ABC, 4th Floor

Lunch will be served at 12:15 PM.

1. **Opening of the Meeting** (Start Time 1:00 PM)
   
   1.1. **Call to Order**
   
   1.2. **Adoption of the Agenda**

   1.3. **Announcements, Celebrations, and Recognitions** (10 minutes)

   1.4. **President’s Remarks** (10 minutes) DISCUSSION
       Charla Wise

   1.5. **Executive Director’s Remarks** (10 minutes) DISCUSSION
       Thomas Costabile

   1.6. **Introductions** (10 minutes) DISCUSSION

   1.7. **Report on Closed Session** (5 minutes)
       Jim Coaker

   1.8. **Consent Items for Action** ACTION

   1.8.1. **Identification of Items to be removed from Consent Agenda**
       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.

   1.8.2. **Approval of Minutes from April 20, 2018 Meeting**

   1.8.3. **Editorial Changes to By-Laws for Second Reading and Approval: Elimination of Capitalization of the Word Officer** (Agenda Appendix 1.8.3)

   1.8.4. **By-Law B4.2.2.2 for Second Reading and Approval: Changes to Nominating Committee Composition** (Agenda Appendix 1.8.4)

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1 The Closed Session is planned for 9:45 AM – 12:15 PM. A separate agenda will be sent to those invited to attend.
1.8.5. Revision to ASME By-Laws B5.2: Committees reporting to Board of Governors (Agenda Appendix 1.8.5)

1.8.6. By-Law B5.2.5.4 for Second Reading and Approval: Retirement Plan Committee Change (Agenda Appendix 1.8.6)

1.8.7. By-Law B5.5 for Second Reading and Approval: Technical Committee on Publications and Communications (Agenda Appendix 1.8.7)

1.8.8. By-Law B5.7 for Second Reading and Approval: Student and Early Career Development Sector (Agenda Appendix 1.8.8)

2. Open Session Agenda Items (Start Time 1:45 PM)

2.1. Deep Dive: Technical Events and Content Sector (40 minutes) DISCUSSION
    Rick Marboe (Agenda Appendix 2.1.)

2.2. FY18 Integrated Operating Plan (10 minutes) DISCUSSION
    Jeff Patterson (Agenda Appendix 2.2.)

2.3. Financial Update (10 minutes) DISCUSSION
    Bill Garofalo (Agenda Appendix 2.3.)

Break (2:45 PM – 3:00 PM)

2.4. SAC Discussion: Membership (45 minutes) DISCUSSION
    John Goossen and Josh Heitsenrether (Agenda Appendix 2.4.)

2.5. Report from 2018 Strategy Advisory Committee (10 minutes) DISCUSSION
    John Goossen (Agenda Appendix 2.5.)

2.6. Status Report on July 2017 Board Retreat (5 minutes) DISCUSSION
    Elena Gerstmann (Agenda Appendix 2.6.)

2.7. Comments from Outgoing Secretary/Treasurer, Governors, and ECLIPSE Intern (20 minutes) DISCUSSION
    Jim Coaker, Bryan Erler, Caecilia Gotama, Sriram Somasundaram, and Jonathan Jennings (Agenda Appendix 2.7.)
2017-2018 Board of Governors-Agenda
June 3, 2018
Page 3 of 4

2.8. Reflections on the Past Year (10 minutes)
Charla Wise
(Agenda Appendix 2.8.)

3. New Business

4. Open Session Information Items

4.1. Sector Management Committee Report
(Agenda Appendix 4.1.)

4.2. CY17 Fellows Listing
(Agenda Appendix 4.2.)

4.3. Approved Society Awards Listing
(Agenda Appendix 4.3.)

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5. Adjournment
List of Appendices

1.8.3. Editorial Changes to By-Laws for Second Reading and Approval: Elimination of Capitalization of the Word Officer

1.8.4. By-Law B4.2.2.2 for Second Reading and Approval: Changes to Nominating Committee Composition

1.8.5. Revision to ASME By-Laws 5.2: Committees reporting to Board of Governors

1.8.6. By-Law B5.2.5.4. for Second Reading and Approval: Retirement Plan Committee Change

1.8.7. By-Law B5.5. for Second Reading and Approval: Technical Committee on Publications and Communications

1.8.8. By-Law B5.7 for Second Reading and Approval: Student and Early Career Development Sector

2.1. Deep Dive: Technical Events and Content Sector

2.2. FY18 Integrated Operating Plan

2.3. Financial Update

2.4. SAC Discussion: Membership

2.5. Report from 2018 Strategy Advisory Committee


2.7. Comments from Outgoing Secretary/Treasurer, Board Members, and ECLIPSE Intern

2.8. Reflections on the Past Year

4.1. Sector Management Committee Report

4.2. CY17 Fellows Listing

4.3. Approved Society Awards Listing
Date Submitted: May 16, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors  
From: Committee on Organization and Rules (COR)  
Presented by: Fred Stong, Chair of COR

Agenda Title: Editorial Changes to ASME By-Laws for Second Reading and Approval: Elimination of Capitalization of the Word Officer

Agenda Item Executive Summary:

A recent review of ASME’s By-Laws showed that the capitalization of the word “Officer” was not consistent.

The attached document highlights each instance where “Officer” appears in upper or lower case with a comment indicating whether the word “Officer” should be in upper or lower case.

Because these changes do not alter the meaning, intent, effect, or overall substance of the By-Laws, it is recommended that these changes be considered editorial in nature.

Proposed motion for BOG Action: To adopt the changes to the capitalization of selected words in the By-Laws as editorial.

Attachments: Red-lined By-Law change.
B4.1.4.2 The material included in the portion of the report covering the Society year shall show the following in appropriate detail:

a. A report by the President;

b. A listing of the Society Officers;

c. Summaries of major Society activities; and

d. A listing of recipients of Society awards.

B4.1.5 Any Officer of the Society or member of any sector, board, committee, or other unit of the Society appointed or elected by the Board of Governors or by any unit of the Society may be removed or suspended from such office or membership by the Board of Governors for cause (which shall include, without limitation, violations of fiduciary duty, racial or other improper discrimination, sexual harassment and defamation).

Any Officer of the Society or member of such sector, board, committee or other unit of the Society elected by the corporate membership may be removed for cause only by the vote of the corporate membership, but his or her authority to act as such Officer or member may be suspended by the Board of Governors for cause.

Removal for cause by the Board of Governors shall require an affirmative vote of seven members of the Board of Governors. Suspension for cause shall require the vote of a majority of the members of the Board of Governors present at the time of the vote, provided that a quorum is present.

Written notice shall be given to the person to be removed or suspended for cause as early as practicable and in any event at least five days before any action is to be taken by the Board of Governors. The person to be removed or suspended for cause shall be given an opportunity to present a defense to the Board of Governors.

B4.1.8 A person shall not be an Officer of the Society in two different elective offices at the same time. A person who has been elected to a position of an Officer of the Society shall not be nominated for another elective office of the Society if there is any overlapping of the term of the proposed office with the term of the office to which that person has already been elected.

B4.2.5 The names of those elected to serve on the Nominating Committee shall be published by the Executive Director prior to the end of each year, accompanied by a request for Officers of the Society to be sent to the Nominating Committee. Any changes to the composition of the Nominating Committee shall be published as soon as possible.

B4.3.1 The Officers shall perform the duties regularly or customarily attached to their offices under the laws of the State of New York, and such other duties as may be required of them by the Board of Governors or the Constitution and By-Laws.

B4.3.2 The President shall be the chief elected Officer of the Society. He or she shall preside at all Business meetings of the Society and of the Board of Governors, and shall have such other powers and perform such other duties as the Board may from time to time prescribe. The President may not be an employee of the Society.
If the President is unable to preside at any meeting of the Board, the immediate past President shall preside. If that is not possible, the Board shall elect one of its voting members to be Chair of the meeting.

If the President is unable to preside at any Business Meeting of the Society, the immediate past President shall preside. If that is not possible, then the next most-recent available past President shall preside.

The term of the President shall begin at the close of the second Business Meeting of the fiscal year at a time designated by the Board.

B4.3.4.1 The Treasurer shall be the chief financial officer of the Society, and shall have such powers and perform such duties as the Board of Governors may from time to time prescribe. The Treasurer shall supervise, review and audit the activities of the Assistant Treasurer in carrying out the assigned duties as generally are incident to the position of Assistant Treasurer or as may be otherwise assigned to him or her by the Treasurer or the Board of Governors. The Treasurer shall be a volunteer member of the Society.

B4.3.5 The Executive Director shall be an employee reporting directly to the Board, an ex officio member of the Board of Governors without vote and the chief executive officer of the Society. The Executive Director shall have supervision, direction and management of the business and affairs of the Corporation, including, but not limited to strategy, operations, finance, marketing, human resources and philanthropic efforts. The Executive Director shall have such powers and perform such duties as the Board of Governors may from time to time prescribe.

B4.3.8 Among the officers of the Society, there shall be the following senior vice presidents:

Senior Vice President for Public Affairs and Outreach
Senior Vice President for Standards and Certification
Senior Vice President for Student and Early Career Development
Senior Vice President for Technical Events and Content

The term of each senior vice president shall be three years, beginning and ending at the second Business Meeting of the fiscal year. The terms of approximately one-third of the senior vice presidents shall end each year, according to a schedule approved by the Board of Governors.

B4.4.10 No part of net earnings of the organization shall inure to the benefit of any member, trustee, director, officer of the organization, or any private individual (except that reasonable compensation may be paid for the services rendered to or for the organization), and no member, trustee, officer of the organization or any private individual shall be entitled to share in the distribution of any of the organization’s assets on dissolution of the organization.
B5.8.4 Officers of the Society are authorized to represent the Society and the Board of Governors to outside parties in announcing and communicating board-stated policy, positions and endorsements, and in announcing decisions and interpretations within any area(s) delegated to them by the Board.

Commented [DJS5]: No change, given that the word "Officer" is the first word of the sentence.

B5.8.5 No officer or other member of the Society acting under B5.8.1 through B5.8.4 shall espouse, support or endorse any position on behalf of the Society, or otherwise bind the Society in any manner, except (a) in accordance with Society Policies; or (b) to the extent previously approved by the Board of Governors.

Commented [DJS6]: No change.

B6.1.3 The first Business Meeting of each fiscal year shall be the legal annual meeting of the Society for the purpose of the election of officers at which time all corporate members shall have the opportunity to vote in person or by proxy for nominees proposed by the Nominating Committee or for nominees proposed by any duly constituted special nominating committee.

Commented [DJS7]: No change.

B6.2.1 Ten to 60 days prior to the first Business Meeting of the fiscal year, the Executive Director shall provide a proxy to each corporate member. This proxy shall solicit the authorization by such member for the three most recent available past Presidents or any one of them to exercise the vote of the corporate member for the election of Officers and for any other business that is presented to the first Business Meeting of the fiscal year or any adjournment thereof. A list of the nominees proposed by the Nominating Committee and any special nominating committee shall be a part of the proxy distribution.

A member shall return the proxy in a manner specified by the Society, which may be by mail, facsimile or electronic mail, provided such electronic mail is transmitted with information from which it can be reasonably determined that the proxy was authorized by such member.

B6.2.4 At the first Business Meeting of the fiscal year the Committee of Inspectors of Proxies and Ballots shall report on the number of proxies thereon returned by corporate members. Following the report of the Committee of Inspectors of Proxies and Ballots, the Presiding Officer shall conduct an election for Officers of the Society. Corporate members present who have not executed proxies will vote in person. Corporate members who have executed proxies but have withdrawn the proxies prior to the tabulation presented by the Committee of Inspectors of Proxies and Ballots, may also vote in person. Corporate members holding valid proxies will cast proxy ballots. When the results of the election are known, the Presiding Officer will announce the results of the election to the Business Meeting.

Commented [DJS8]: No change, given that the word "Presiding" appears before "Officer".

B8.1.2 Upon the close of the proxy vote, the Committee of Inspectors of Proxies and Ballots shall canvass the proxy ballots returned to the Society and shall certify the result to the Presiding Officer at the next Business Meeting of the Society.

Commented [DJS9]: No change, given that the word "Presiding" appears before "Officer".

Commented [DJS10]: No change, given that the word "Presiding" appears before "Officer".
ASME Board of Governors  
Agenda Item Cover Memo  

Date Submitted: May 15, 2018  
BOG Meeting Date: June 3, 2018  

To: Board of Governors  
From: Sector Management Committee  
Presented by: Paul Stevenson, Senior Vice President, Student and Early Career Development  
Agenda Title: By-Law B4.2.2.2. for Second Reading and Approval: Changes to Nominating Committee Composition  

Agenda Item Executive Summary:  

The current distribution of voting members on the Nominating Committee (NC) is based on the number of vice presidents that used to be elected within the sectors. Technical Events and Content (TEC) received seven (7) because of two Institute VPs, Global Communities, Technical Communities, Programs & Activities, Financial, and the Affinity (virtual) Communities VPs. The affinity and programs & activities related functions are for the most part now in SECD, Global is now mostly the Group Engagement Committee (GEC), and financial, technical, institutes are covered by TEC. Therefore, to better balance this distribution it is the SVPs’ belief that two of TEC’s voting positions should go to SECD, and a third should be filled by a recommendation by GEC, yet still report to TEC. This still leaves a disparity between PAO (currently at three positions) and the remaining Sectors. Therefore, Standards and Certification (S&C) agrees to transfer one of its five positions to PAO thus resulting in four positions each. We believe that equal representation on the NC by all four Sectors is appropriate and will result in a better diversity of perspective. The extra representative given to TEC recognizes the need for Groups to have a voice on the NC and also preserves the odd number of voting members of the NC at 17, which minimizes the probably of tie votes.

The Nominating Committee that will meet in June 2018 was approved at the November 2017 Business Meeting. The proposed structure, summarized in the matrix below, would go into effect with the Nominating Committee that meets in June 2019.

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Proposed motion for BOG Action:  

To adopt the changes to By-Law B4.2.2.2 .  

Attachments: Red-lined By-Law change.
B4.2.2.2 The Nominating Committee shall consist of voting members and alternates selected by each sector. The TEC Sector shall have five-seven voting members and five-seven alternates selected by the TEC Sector Council. One voting member and one alternate for the TEC Sector shall be nominated by the Group Engagement Committee for as long as such Committee exists and reports to the Sector Management Committee. The S&C Sector shall have four-five voting members and three-two alternates selected by the Council on Standards and Certification. The PAO Sector shall have four-three voting members and three alternates selected by the PAO Sector Council. The SECD Sector shall have four-two voting members and three-two alternates selected by the SECD Sector Council. Approximately one-half of the voting members will have terms that expire annually. Nominations for open positions for voting members and alternates shall be made as provided in By-Law B4.2.2.3 and shall be voted upon at the Business Meetings as provided in By-Law B4.2.2.1.

Voting members and alternates shall be of the Member or Fellow grade and not currently serving in any elective office of the Society.
AGENDA ITEM EXECUTIVE SUMMARY:

ASME By-Law 5.2 addresses the committees that report to ASME Board of Governors. A Tiger Team was created to review current By-Laws. The proposed edits largely address the purpose and composition of these committees.

The document shows the red-lined and clean versions of the By-Laws. The By-Laws were approved for first reading on April 20.

Subsequent to the first read, suggestions for additional changes were received. The suggested changes involved the membership of the Strategy Advisory Committee (SAC). Accordingly, the changes in the first read of B5.2 relating to the SAC have been withdrawn. A separate motion is submitted to reflect all of the changes with respect to SAC including the new suggested edit involving the membership of the SAC.

PROPOSED MOTIONS FOR BOG ACTION:

1. To adopt the changes to By-Law B5.2 as modified.
2. To approve for first reading changes to By-Law B5.2.6.1 and B5.2.6.2

ATTACHMENTS:

Red-lined By-Law changes
BY-LAW CHANGES FOR ADOPTION

B5.2 SECTORS AND COMMITTEES REPORTING TO THE BOARD OF GOVERNORS

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 Honors, and the Committee of Past Presidents and the Sector Management Committee. 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 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.

B5.2.3.1 The Committee on Organization and Rules, under the direction of the Board of Governors, shall have responsibility for ensuring that the Society is organized and supplied with qualified leadership to serve the current and anticipated future needs of the membership, and shall reexamine regularly the Constitution, By-Laws and Policies of the Society.

B5.2.3.2 The Committee on Organization and Rules shall select its own, consist of a Chair, Chair and a Vice Chair, and its membership shall be determined by the Board of Governors. The President-Elect may select a Governor to serve as Liaison to the Committee during their Presidential term.

B5.2.4.1 The Committee on Finance and Investment, under the direction of the Board of Governors, shall have responsibility for supervising the financial and investment affairs of the Society, and shall supporting the Board and its committees by conducting an annual review of the Society's budgets.

B5.2.4.2 The Committee on Finance and Investment shall select its own, consist of a Chair, a Vice Chair and a membership as determined by the Board of Governors.

The Treasurer shall be an ex officio member of the Committee with vote and shall serve as Vice Chair. The Assistant Treasurer and the Second Assistant Treasurer shall be ex officio members of the Committee without vote. Other members shall be determined by the Board of Governors. The President-Elect may select a Governor to serve as Liaison to the Committee during their Presidential term.

B5.2.5.1 The Committee on Executive Director Evaluation and Staff Compensation, under the direction of the Board of Governors, shall have a specific responsibility for making recommendations to the Board regarding the Executive Director's performance planning and evaluation and for making recommendations to the Board regarding the Executive Director's compensation, including salary and bonus recommendations.

The Committee shall also have the responsibility to advise the Board of Governors on
activities of the Society's staff regarding: staff compensation, including bonus programs; volunteer evaluations of staff/volunteer/staff collaboration survey; staff planning and organization; staff training and development; staff and retiree benefit programs, including pension plans. The committee will also be responsible for staff related Society Policies P-7.1, (Recognition of Staff Members - 5 Years or More of Service) and P-7.2, (Staff Employment Guidelines).

In addition, the Committee has oversight responsibilities for the Pension Plan Trustees and the Retirement Plan Committee.

B5.2.5.2 The Committee on Executive Director Evaluation and Staff Compensation shall consist of the President, the President-Nominee/Elect, the Immediate Past President and three current Board members at-large (serving staggered terms on the Board). The President and Immediate Past President are ex officio members of the committee with vote. The President-Nominee/Elect is an ex officio member of the Committee without vote. The Immediate Past President shall be the Chair. Although the ASME Treasurer, the Executive Director and the Associate Executive Director of Human Resources and Facility Operations, are not members of the Committee, they will be available to the Committee for consultation as needed. The incoming first-year Governor shall be selected by the President-Elect and approved by the Board of Governors.

The term of each of the current Board members at-large expires when their Board term expires.

B5.2.6.1 The Strategy Advisory Committee (SAC) under the direction of the Board of Governors, shall have the responsibility to provide 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 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 to break a tie) and a Vice Chair (who will serve if the Chair is absent or ceases to serve).

B5.2.7.1 The Committee on Honors, under the direction of the Board of Governors, shall have responsibility for recommending properly selected candidates for honors, medals, Honorary Members, and awards, and as required shall recommend recipients of joint awards, all
subject to approval by the Board of Governors. However, the Board may delegate to the Committee on Honors the power to approve candidates for any honor, medal or award other than Honorary Member or ASME Medalist.

B5.2.7.2 The Committee on Honors shall select its own Chair and Vice Chair. Its membership shall be determined by the Board of Governors. The Chair of the General Awards Committee shall be an ex officio member with vote. The President-Elect may select a Governor to serve as Liaison to the Committee during their Presidential term.

B5.2.8.1 The Committee of Past Presidents, under the direction of the Board of Governors, shall have responsibility for electing Fellows, overseeing the ethical practice of engineering, and providing guidance on matters where its experience may be useful, upon request by the President, Board of Governors, and other units of the Society.

B5.2.8.2 The Committee of Past Presidents shall select its own Chair and Vice Chair. Its membership shall consist of all living Past Presidents. The Officers of the Committee shall be the Chair, the Vice Chair, and the Secretary.

B5.2.9.2 The Audit Committee shall consist of three current Board members-at-large (serving staggered terms on the Board) who serve as voting members. The Committee membership—a Chair, a Vice Chair and a voting membership as determined by the Board of Governors and consisting solely of “independent” members of the Board as defined under Section 102(a) (21) of the New York Not-for-Profit Corporation Law. The Chair shall be the senior Governor and the Vice Chair shall be the second-most senior Governor.

The Treasurer shall be an ex officio member of the Committee without vote. The Assistant Treasurer and the Second Assistant Treasurer shall be ex officio members of the Committee without vote. The President-Elect makes the recommendation on the incoming first-year Board member-at-large. The term of the Board members-at-large expires when their Board term expires.

B5.2.9.12 The Audit Committee, under the direction of the Board of Governors, shall have responsibility for overseeing the accounting and financial reporting process of the Society and the audit of its financial statements and report its activities to the Board. The Committee will be responsible for overseeing the adoption and implementation of, and compliance with, the Society Policies on whistleblowers and conflicts of interest. The Committee will annually consider the performance and independence of the independent auditor and recommend retaining or renewing the retention of the independent auditor to the Board. The Committee will liaise with the independent auditor prior to the commencement of the audit and upon completion of the audit, review and discuss the audit results and any related management letter with the auditor including:

(a) any material risks and weaknesses in internal controls identified by the auditor;
(b) any restrictions on the scope of the auditor’s activities or access to requested information;
(c) any significant disagreements between the auditor and management; and
(d) the adequacy of the Corporation’s accounting and financial reporting processes.

B5.2.10.1 The Sector Management Committee, under the direction of the Board of Governors, shall have responsibility for facilitating communication and collaboration among the
Sectors. This includes coordination, integration, and facilitation for implementation of the enterprise strategy with the development, maintenance and execution of the Integrated Operating Plan.

B5.2.10.2 The Sector Management Committee shall consist of the Senior Vice Presidents and the Chair of the Group Engagement Committee, their respective staff counterparts, and the staff member with overall responsibility for operations. The Co-Chairs of the Committee shall be the Senior Vice President in their third year and the staff member with overall responsibility for operations. The President-Nominee/Elect will serve as an advisor to the Committee.

CLEAN VERSION

B5.2 SECTORS AND COMMITTEES REPORTING TO THE BOARD OF GOVERNORS

B5.2.2 The following Standing Committees shall report to the Board of Governors and shall be appointed by the Board 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 Honors, Committee of Past Presidents and the Sector Management Committee. 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 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.

B5.2.3.1 The Committee on Organization and Rules, under the direction of the Board of Governors, shall have responsibility for ensuring that the Society is organized and supplied with qualified leadership to serve the current and anticipated future needs of the membership, and shall reexamine regularly the Constitution, By-Laws and Policies of the Society.

B5.2.3.2 The Committee on Organization and Rules shall select its own Chair and Vice Chair. Its membership shall be determined by the Board of Governors. The President-Elect may select a Governor to serve as Liaison to the Committee during their Presidential term.

B5.2.4.1 The Committee on Finance and Investment, under the direction of the Board of Governors, shall have responsibility for supervising the financial and investment affairs of the Society, and supporting the Board and its committees by conducting an annual review of the Society's budgets.

B5.2.4.2 The Committee on Finance and Investment shall select its own Chair.

The Treasurer shall be an ex officio member of the Committee with vote and shall serve as
Vice Chair. The Assistant Treasurer and the Second Assistant Treasurer shall be ex officio members of the Committee without vote. Other members shall be determined by the Board of Governors. The President-Elect may select a Governor to serve as Liaison to the Committee during their Presidential term.

B5.2.5.1 The Committee on Executive Director Evaluation and Staff Compensation, under the direction of the Board of Governors, shall have responsibility for making recommendations to the Board regarding the Executive Director's performance planning and evaluation and for making recommendations to the Board regarding the Executive Director's compensation, including salary and bonus recommendations.

The Committee shall also have the responsibility to advise the Board of Governors on activities of the Society's staff regarding: staff compensation, including bonus programs; volunteer/staff collaboration survey; staff planning and organization; staff training and development; staff and retiree benefit programs, including pension plans. The committee will also be responsible for staff related Society Policies P-7.1, (Recognition of Staff Members - 5 Years or More of Service) and P-7.2, (Staff Employment Guidelines).

In addition, the Committee has oversight responsibilities for the Pension Plan Trustees and the Retirement Plan Committee.

B5.2.5.2 The Committee on Executive Director Evaluation and Staff Compensation shall consist of the President, the President-Nominee/Elect, the Immediate Past President and three current Board members at-large (serving staggered terms on the Board). The President and Immediate Past President are ex officio members of the committee with vote. The President-Nominee/Elect is an ex officio member of the Committee without vote. The Immediate Past President shall be the Chair. The incoming first-year Governor shall be selected by the President-Elect and approved by the Board of Governors.

The term of each of the current Board members at-large expires when their Board term expires.

B5.2.6.1 The Strategy Advisory Committee (SAC) under the direction of the Board of Governors, shall have the responsibility to provide 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 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 to break a tie) and a Vice Chair (who will serve if the Chair is absent or ceases to serve).

B5.2.7.1 The Committee on Honors, under the direction of the Board of Governors, shall have responsibility for recommending properly selected candidates for honors, medals, Honorary Members, and awards, and as required shall recommend recipients of joint awards, all subject to approval by the Board of Governors. However, the Board may delegate to the Committee on Honors the power to approve candidates for any honor, medal or award other than Honorary Member or ASME Medalist.

B5.2.7.2 The Committee on Honors shall select its own Chair and Vice Chair. Its membership shall be determined by the Board of Governors. The Chair of the General Awards Committee shall be an ex officio member with vote. The President-Elect may select a Governor to serve as Liaison to the Committee during their Presidential term.

B5.2.8.1 The Committee of Past Presidents, under the direction of the Board of Governors, shall have responsibility for electing Fellows, overseeing the ethical practice of engineering, and providing guidance on matters where its experience may be useful, upon request by the President, Board of Governors, and other units of the Society.

B5.2.8.2 The Committee of Past Presidents shall select its own Chair and Vice Chair. Its membership shall consist of all living Past Presidents.

B5.2.9.1 The Audit Committee, under the direction of the Board of Governors, shall have responsibility for overseeing the accounting and financial reporting process of the Society and the audit of its financial statements and report its activities to the Board. The Committee will be responsible for overseeing the adoption and implementation of, and compliance with, the Society Policies on whistleblowers and conflicts of interest. The Committee will annually consider the performance and independence of the independent auditor and recommend retaining or renewing the retention of the independent auditor to the Board. The Committee will liaise with the independent auditor prior to the commencement of the audit and upon completion of the audit, review and discuss the audit results and any related management letter with the auditor including:

(a) any material risks and weaknesses in internal controls identified by the auditor;
(b) any restrictions on the scope of the auditor’s activities or access to requested information;
(c) any significant disagreements between the auditor and management; and
(d) the adequacy of the Corporation’s accounting and financial reporting processes.

B5.2.9.2 The Audit Committee shall consist of three current Board members-at-large (serving staggered terms on the Board) who serve as voting members. The Committee membership is determined by the Board of Governors and consists solely of “independent” members of the Board as defined under Section 102(a) (21) of the New York Not-for-Profit Corporation Law. The Chair shall be the senior Governor and the Vice Chair shall be the second-most senior Governor. The Treasurer shall be an ex officio member of the
Committee without vote. The Assistant Treasurer and the Second Assistant Treasurer shall be ex officio members of the Committee without vote. The President-Elect makes the recommendation on the incoming first-year Board member-at-large. The term of the Board members-at-large expires when their Board term expires.

B5.2.10.1 The Sector Management Committee, under the direction of the Board of Governors, shall have responsibility for facilitating communication and collaboration among the Sectors. This includes coordination, integration, and facilitation for implementation of the enterprise strategy with the development, maintenance and execution of the Integrated Operating Plan.

B5.2.10.2 The Sector Management Committee shall consist of the Senior Vice Presidents and the Chair of the Group Engagement Committee, their respective staff counterparts, and the staff member with overall responsibility for operations. The Co-Chairs of the Committee shall be the Senior Vice President in their third year and the staff member with overall responsibility for operations. The President-Nominee/Elect will serve as an advisor to the Committee.
BY-LAWS B5.2.6.1 AND B5.2.6.2 CHANGES FOR FIRST READING

B5.2.6.1

The Strategy Advisory Committee (SAC) under the direction of the Board of Governors, shall have the responsibility to provide 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 Strategy Advisory Committee shall consist of the President, two current Board members-at-large (serving staggered terms, one second year and one third year), one representative from the Industry Advisory Board, and the senior staff member responsible for Strategy. The incoming second-year Governor shall be selected by the President-Elect and approved by the Board of Governors. The term of the Board members-at-large expires when their Board term expires. The representative from the Industry Advisory Board will be recommended annually by the Chair of the Industry Advisory Board and approved by the Board of Governors.

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 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 to break a tie) and a Vice Chair (who will serve if the Chair is absent or ceases to serve).
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 16, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors
From: Committee on Executive Director Evaluation and Staff Compensation
Presented by: K. Keith Roe, Chair, EDESC
Agenda Title: By-Law B5.2.5.4. for Second Reading and Approval: Retirement Plan Committee Change

Agenda Item Executive Summary:

The By-Law for the Retirement Plan Committee originally included five committee members, with three of the members being members of the Executive Management Team (EMT). One of the three EMT members was to be the General Counsel.

It was later decided that the General Counsel should perform a legal advisory role, instead of being a member of the committee. Therefore, we are recommending a change in the committee membership to four members, two being members of the EMT, one member of Human Resources, and one volunteer.

Proposed motion for BOG Action: To adopt the change to By-law B5.2.5.4.

Attachments: Red-lined By-Law change
B5.2.5.4 The Retirement Plan Committee, under the direction of the Committee on Executive Director Evaluation and Staff Compensation, shall have responsibility, as specified in the ASME Thrift Plan, the ASME Defined Contribution (DC) Plan, the ASME 457(b) Plan, and the ASME 401(k) Plan documents, including to act as Plan Administrator and Named Fiduciary for such plans and assume such responsibilities as developing investment policy statements, selecting and monitoring investment choices, benchmarking Plan administration expenses and investment plan administrators performance and selecting, appointing and retaining plan investment, governance and plan administration compliance advisors, as well as having the power to make ministerial and technically required plan amendments.

The Retirement Plan Committee shall consist of fourfive members: twothree members of the Executive Management Team, one member of the Human Resources Department and one Volunteer member of the Pension Plan Trustees. The threefour staff members will be nominated by the Executive Director and appointed at the discretion of the EDESC. The pension plan trustee shall be recommended by the Pension Plan Trustees and may be appointed at the discretion of the EDESC.

The ASME Staff members of the Committee may be members with vote for as long as they hold the positions described in this By-Law B5.2.5.4. The Pension Plan Trustee member’s term will be for as long as he/she is a member of the Pension Plan Trustees.
Date Submitted: May 16, 2018
BOG Meeting Date: June 3, 2018
To: Board of Governors
From: Sector Management Committee
Presented by: Richard Marboe, Senior Vice President, Technical Events and Content Sector
Agenda Title: By-Law B5.5 for Second Reading and Approval: Technical Committee on Publications and Communications.

Agenda Item Executive Summary:
The TEC Council voted to add the Chair of the Technical Committee on Publications and Communications as a voting member on its Council.

Proposed motion for BOG Action:
To adopt the change to By-Law B-5.5.

Attachments: Red-lined By-Law change.
B5.5.1.2 The Technical Events and Content Sector shall be led by a Sector Council that consists of the following voting membership: a Senior Vice President (SVP) as Chair, the Segment Representatives representing each of the designated Sector Market Segments as outlined in the Sector Operation Guide, the Chair of the Technical Committee on Publications and Communications, and up to five members-at-large. The non-voting membership of the Sector Operating Council shall include staff as appointed by the Executive Director."

The following By-Law would be added:

B5.5.1.6 The Technical Committee on Publications and Communications (TCPC) is responsible for publications of the Society, except that the Standards and Certification Sector shall be in charge of codes and standards. The Committee shall consist of a Chair and a membership as determined by the Technical Events and Content Council.
ASME Board of Governors
Agenda Item Cover Memo

Date Submitted: May 16, 2018
BOG Meeting Date: June 3, 2018
To: Board of Governors
From: Sector Management Committee
Presented by: Paul Stevenson, Senior Vice President, Student and Early Career Development
Agenda Title: By-Law B5.7 for Second Reading and Approval: Student and Early Career Development Sector

Agenda Item Executive Summary:
The SECD Council voted to add an E-Fest Steering Committee as a permanent committee reporting to the Council.

Proposed motion for BOG Action:
To adopt the change to By-Law B-5.7.

Attachments: Red-lined By-Law change.
B5.7.1.2 The Student and Early Career Development Sector shall be led by a Council that consists of the following voting membership: a Senior Vice President as Chair; three members-at-large; and the Chairs of the following: the Student Programming Committee, and the Early Career Engineer Programming Committee, and the E-Fest Steering Committee. The Director, Student and Early Career Development and the Managing Director, Programs are non-voting staff members of the Council.

B5.7.2.1 The following Committees will report directly to the Student and Early Career Development Council: the Early Career Engineer Programming Committee, and the Student Programming Committee, and the E-Fest Steering Committee.

The following By-Law will be added:

B5.7.2.4 The E-Fest Steering Committee, under the direction of the Student and Early Career Development Council, is responsible for the development of Engineering Festivals (E-Fests). The Committee shall consist of a Committee Chair appointed by the Senior Vice President to a term of one year, renewable for up to three years, and a membership as determined by the Student and Early Career Development Council.
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 11, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors
From: Technical Events and Content Sector
Presented by: Rick Marboe, SVP and Philip DiVietro, MD, Publishing
Agenda Title: Deep Dive: Technical Events and Content Sector

Agenda Item Executive Summary:

As a follow up to a previous BOG presentation by Bill Wepfer and John Goosen, this informational brief will more detail on TEC sector products and services that provide value for knowledge dissemination and the digital engineer.

This will include discussion of the creation process for reviewed content for conferences, journals, and industry events and the current and future tools needed for ASME to thrive. There will also be a discussion of threats to the current publishing models as well as future opportunities for transient and archival knowledge dissemination.

BOG Action: None

Attachments: Information to be distributed prior to June 3, 2018.
Deep Dive: Technical Events & Content Sector - Knowledge Creation & Dissemination by and for Today’s Engineer

BOG, June 3, 2018, Vancouver, B.C. Canada

Rick Marboe, Senior VP, TEC, ASME

Philip V. DiVietro
Managing Director, Publishing
What to Expect from this Presentation

• Brief Description – Detail on TEC products and services that provide value for knowledge dissemination that supports the modern engineer

• Desired Outcome – Information only with discussion by the Board

• Questions – Please ask only clarifying questions during the presentation with fuller discussion after

• Duration – Presentation – 25 minutes; Discussion 20 minutes
Forward Leaning to Support the Engineer of Today and Tomorrow

• Engineers today have much more information at their finger tips. They expect ready information and incorporate it into their task execution for CAE, CAD, CAM, V&V, and Reporting

• ASME wants to be the first “Go To” source for supporting engineers – Value added

• But Accuracy and Trustworthiness will be required to get and maintain that distinction

• ASME related Personal Networks enhance this experience. Coaching works across all generations.

• TEC supports this with Conferences and Publishing and other media.
ASME Strengths: Review Process

ASME review processes are **Sacred**.
Heart of various programs, essential to withstanding the ‘fake news’ noise of predatory publishers.

**ASME brand identity is:**
Highly technical information,
High accuracy,
High quality,
Trustworthy.

Deep read.
Collaboration at deep technical level. (Does not happen on social media.)
ASME Strengths: Qualified Content Providers and Quality Reviewers

“It takes a City – no mere village.”

• 22 recurring 2018 R&D conferences with Proceedings Publications; (22 in 2017).
• 19,947 Conference Authors (2017)
• 14,689 Conference, Symposia & Session Organizers (2017)
• 31 Journals (34 Editors and 619 Assoc. Editors)
• 9,520 Journal Authors (2017)
• 7,696 Journal Reviewers (2017)
• Contributors from 125 Countries
Commentary and significant developments:
Generally author increases are due to increased participation from Asia, particularly China and India. In addition, two new journals launched in FY2018 and contributed to growth. This is true for Authors, Peer reviewers, Editors and Associate Editors. *Year to date comparison of Q3 (not a full 4-quarter year).
### Top 20 of Q3 FY18

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<td>Sweden</td>
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<td>47</td>
<td>57</td>
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<td>All Others*</td>
<td>663</td>
<td>545</td>
<td>761</td>
<td>All Others*</td>
<td>765</td>
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<td>9,193</td>
<td>7,569</td>
<td>8,827</td>
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<td>9,726</td>
<td>9,855</td>
<td>10,853</td>
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**Note:** “All Others*” range from 7% - 10% of the total.
### Top 20 of Q4 FY17

<table>
<thead>
<tr>
<th>Country</th>
<th>Conference Organizers</th>
<th>Country</th>
<th>Conference Authors</th>
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<tbody>
<tr>
<td></td>
<td>FY17</td>
<td>FY16</td>
<td>FY15</td>
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<tr>
<td>United States</td>
<td>6,957</td>
<td>6,754</td>
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<td>China</td>
<td>1,231</td>
<td>912</td>
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<td>Canada</td>
<td>775</td>
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<td>Iran(Islamic Republic Of)</td>
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<td>0</td>
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<tr>
<td>All Others</td>
<td>1,049</td>
<td>1,182</td>
<td>1,084</td>
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<tr>
<td>Totals</td>
<td>14,689</td>
<td>13,962</td>
<td>14,847</td>
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</table>

### Commentary and significant developments:
Through December Total Publishing Stats
- 1.8 million pages
- 98,000 Journal articles
- 132,000 conference proceedings papers
- 215 eBooks

Google Analytics through December:
- 3.6 million users
- Accessing 6.1 million sessions
- Total 11.1 million page views.

Sitemaster Analytics by all Topic Collections, Aggregated
- ~8 million Topic Collection landing page views
- 7.3 million times Topic Collection combined full-text html + pdf views
ACCELERATING THE PACE OF ENGINEERING INNOVATION

Global Access
In 2017, 3.7 million users at more than 2,800 institutions in over 70 countries accounted for more than 11 million pageviews and accessed in excess of 8.1 million full-text journal articles, conference proceedings papers, and eBook chapters.

International Content
In 2017, more than 2,000 articles were published through the ASME Journal Program with a global footprint of authors that contributes to and supports the ASME Journal Program.

PUBLISHED ARTICLES PER REGION

Expert and Fair Peer Review
At the heart of the program, 8,000 individuals served as peer reviewers for the ASME Journal Program in 2017.

Reviewers are invited to participate in the ASME Journal Program because of their expertise in their fields and their ability to offer thorough and accurate criticism of current research in order to move innovation forward.

PEER REVIEWERS PER REGION

Speed to Publication
ASME is continuously striving to improve the time to publication across the entire ASME Journal Program while maintaining the integrity, thoroughness, and quality of the peer reviews that define the program.

As an example, the time in review for the Journal of Applied Mechanics decreased by 45% (2013–2017), which means that authors received review results in an average of 41.5 days in 2017!
CONFERENCE PROCEEDINGS
AUTHORS PER REGION

In 2017, close to 20,500 conference authors presented papers at ASME conferences reflecting the following geographic distribution:

- Europe: 22%
- North America: 37%
- Asia: 36%
- Oceania: 1%
- Latin America: 2%
- Africa & Middle East: 2%
Strengths

- Professional relationship with students/faculty/authors/researchers/editors throughout career.
- Highly respected, dedicated editors, associate editors, and reviewers.
- Validated, quality content.
- Not considered a profiteer publisher.
- Stable non-profit publishing tradition.
- Niche, engineering discipline-specific publishing program.
- Close Industry relationships.
- Number of annual university degreed MEs at record highs in past decade.
- Strategic direction.
- Talented, experienced and competent publishing management.
- Surplus-generating program.
Weaknesses

- Small program in comparison to competitors.
- ASME viewed as risk adverse, non-profit perspective.
- Slow to respond to changing conditions, not considered agile.
- Lack of author tools supporting content. Slow to upgrade.
- ASME priorities focus on other organization issues.
- Non-publishing priorities can dominate organization energy.
- Vested interests of established organizational technical structure
- Journals not viewed as a dramatic area for growth.
- Gender diversity.
- Scarce resources to support content development.
Opportunities

- Expand Digital Collection branding; article visibility.
- Online only journal publishing, “Letters” concept.
- Expand publishing frequency beyond monthly.
- Open Access – International authors.
- Virtual Special issues.
- Develop author tools – technical support for content development.
- Execute library/university training.
- Create special recognitions for reviewers and associate editors.
- Develop management skills of editors and AE’s.
- Engage Industry.
- Leverage non-profit (mission-driven) reputation.
- Expand personal/professional contacts as other non-profit organizations opt for commercial publishers, SME (Elsevier), I-Mech Eng (Sage), AGU (Wiley).
ASME Publishing Portfolio SWOT

Threats

- University and Corporate Library funding may diminish.
- JCR Impact Factors may decline.
- Competitive non-ASME member benefits.
- For-Profit publishers target ASME to expand content.
- Internal & external competition for Subject Matter Experts.
- Constant publishing technology changes.
- Research funding may decline precipitously.
- Fake science/Predatory and Pirate publishers.
- Severe economic downturn may occur.
- Internal politics. Threats to depart ASME.
Free, unrestricted access to all information.  
Content not behind fire wall.  
Subscription model in jeopardy.  
Various government mandates in the US, UK, EU, China and a host of other countries.  
Required by the research grant agreement.  
Required by law.  
Private funders followed such as the Bill and Melinda Gates Foundation; the Chan Zuckerberg Foundation and others.  
De facto government regulation of STEM publishing.
All journal and conference proceedings papers screened upon submission using Crossref Similarity Checking (iThenticate).

The world's top publishers participate:

- American Institute of Physics (AIP)
- American Society of Mechanical Engineers (ASME)
- American Physical Society (APS)
- American Psychological Association (APA)
- Elsevier
- IEEE
- Institute of Physics (IOP)
- KAMJE
- Lippincott Williams & Wilkins (LWW)
- Nature Publishing
- Ovid
- Oxford University Press (OUP)
- Sage Publications
- Springer
- Taylor & Francis
- Wiley-Blackwell
- Zhejiang Publishing United Group Co., Ltd
Recent Publishing Actions

Open Access Soft Launch, September 2017. Author’s Choice; Hybrid journals.
Library Advisory Board: September 2018.
Two new journals launched, FY2018.
ASME Digital Collection Upgrades.
Journal Tool and Conference Tool added support via a software developer.
Reviewer recognition.
Technical Paper Submission and Review Tool
Upgrades Needed ASAP and Consistently for
Conferences and Path to Journals.

Publication Products Around the 5 Technologies:
• Publish Focused Periodicals around each Technology
• ASME Cross-sector Content for each of these:
  – Emerging Trends from R&D Conferences
  – Emerging Standards and Best Practices
  – Case Studies
  – Public Policy Issues
  – Learning & Development Opportunities
  – What does a student or ECE need to know?
• Free ASME Member Benefit.
• By McGraw-Hill Education.
• 700+ titles spans all engineering disciplines, from mechanical to chemical, civil and electrical/electronic.
• To assist with engineering problems, research, and projects.
• Most titles come embedded with calculator tools, interactive graphs, and downloadable tables.
• This alone is worth your ASME dues investment.
Cost and Usage

• Cost for service $137K
• Usage could be broader
• Continue Promotion
• R&D Conference Proceedings
• Archival Journals and Letters
• Published Books
• Access Engineering
• More Content Appropriate to More of the Technology S-Curve
• Packaging of Multiple Sector Content in Focus Technologies
• Streamed Event Sessions
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 11, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors
From: Jeff Patterson, Chief Operating Officer
Presented by: Jeff Patterson
Agenda Title: FY18 Integrated Operating Plan

Agenda Item Executive Summary:

Jeff Patterson will present a status report on achievement of FY18 IOP One-Year Operating Goals.

Proposed motion for BOG Action: None

Attachments:

FY18 IOP One-Year Operating Goals Report to be distributed prior to June 3, 2018.
Board of Governors Meeting
Item 2.2
FY18 IOP Update – Projected Results

Jeff Patterson
June 3, 2018
What to expect from this presentation

• **Brief Description** – Projected full-year results for the 11 FY18 IOP One-Year Operating Goals

• **Desired Outcome** – Awareness of expected performance against plan

• **Questions** – Please hold questions until the presentation is complete

• **Duration** – 10 minutes (four slides: five minutes for presentation, five minutes for discussion)
<table>
<thead>
<tr>
<th>#</th>
<th>1-Year Operating Goal</th>
<th>Owner</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>Executive Commentary</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ASME has launched at least two new products in each of the five strategic technologies by 6/30/18.</td>
<td>Jeff Patterson</td>
<td>On Track</td>
<td>On Track</td>
<td>On Track</td>
<td>43 products associated with the five strategic technologies are scheduled for launch by 6/30/18: including: 8 in Manufacturing; 7 in Bioengineering; 14 in Pressure Technology; 9 in Clean Energy; and 5 in Robotics.</td>
</tr>
<tr>
<td>2</td>
<td>ASME has established baseline Transactional Loyalty Scores by 6/30/18, among customers and members, for a minimum of three products in each of our operating units, e.g., Standards and Certification, Conferences, etc., for the purpose of assessing the society’s ability to drive repurchase and recommendations.</td>
<td>Jeff Patterson</td>
<td>On Track</td>
<td>On Track</td>
<td>On Track</td>
<td>Membership is excluded because there is essentially one product. All surveys have been launched; reports to be completed by 6/27/18.</td>
</tr>
<tr>
<td>3</td>
<td>ASME has produced four engineering festivals for undergraduate/graduate students (E-Fests) by 6/30/18, with two in the U.S., one in India, and one in an additional region of the world, e.g., either Europe/Middle East (EMEA) or South America.</td>
<td>Jeff Patterson</td>
<td>On Track</td>
<td>On Track</td>
<td>On Track</td>
<td>India held 3/16/18-3/18/18; U.S. West held 3/23/18-3/25/18; U.S. East held 4/13/18-4/15/18; by prior agreement with EDESC, Brazil will actually take place in July (FY19) based on the timing of the local academic year.</td>
</tr>
<tr>
<td>4</td>
<td>ASME has an IOP Year One implementation plan approved by the Board of Governors and in execution by 9/30/17.</td>
<td>Jeff Patterson</td>
<td>Complete</td>
<td>Complete</td>
<td>Complete</td>
<td>Board of Governors approved the Refined FY18 IOP on 9/27/17.</td>
</tr>
<tr>
<td>5</td>
<td>ASME has achieved its budgeted revenue goal by 6/30/18.</td>
<td>Bill Garofalo</td>
<td>On Track</td>
<td>On Track</td>
<td>On Track</td>
<td>Through the first 10 months of FY18, actual revenue is ahead of budget by $2.4M, lead mostly by better than expected Standards revenue.</td>
</tr>
<tr>
<td>6</td>
<td>ASME has established baseline volunteer satisfaction metrics by 6/30/18.</td>
<td>Jeff Patterson</td>
<td>On Track</td>
<td>On Track</td>
<td>On Track</td>
<td>Survey sent to respondents on 4/11/18; survey closed on 5/18/18; report to be completed by 6/22/18.</td>
</tr>
</tbody>
</table>

Projected results as of 5.31.18
<table>
<thead>
<tr>
<th>#</th>
<th>I-Year Operating Goal</th>
<th>Owner</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>Executive Commentary</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>ASME has negotiated new contracts, including terms designed to increase revenue, with its top three standards resellers by 12/31/17.</td>
<td>Jeff Patterson</td>
<td>Off Track</td>
<td>Off Track</td>
<td>Complete</td>
<td>IHS Markit contract signed 5/18/18. As previously reported to the BoG in April, Clarivate Techstreet and SAI Global had previously submitted signed contracts.</td>
</tr>
<tr>
<td>8</td>
<td>ASME is tracking and using meaningful reports to manage all active IOP-related projects in Clarizen by 9/30/17.</td>
<td>Bill Garofalo</td>
<td>On Track</td>
<td>On Track</td>
<td>On Track</td>
<td>After formal approval of the IOP, “enterprise projects” were inventoried in Excel and key resource roles were assigned. All “enterprise projects” were included in the Q2 “Consolidated Reporting Package” auto-generated from Clarizen.</td>
</tr>
<tr>
<td>9</td>
<td>ASME will develop and roll out by 11/1/17 a communication plan that conveys to volunteers, members and staff the substance, value and progress of the Strategic Plan and Integrated Operating Plan.</td>
<td>Elena Gerstmann</td>
<td>Complete</td>
<td>Complete</td>
<td>Complete</td>
<td>The Strategy Advisory Committee reviewed the Communications Plan in September. Implementation is ongoing (e.g., publication of strategy on asme.org; well-attended Strategy/IOP Forum at IMECE; well-received presentation during GLDC).</td>
</tr>
<tr>
<td>10</td>
<td>ASME will begin work by 3/31/18 in order to establish Social Return on Investment Metrics to be implemented by the end of FY 2019.</td>
<td>Jeff Patterson</td>
<td>At Risk</td>
<td>On Track</td>
<td>On Track</td>
<td>Project underway directed by Anand Sethupathy.</td>
</tr>
<tr>
<td>11</td>
<td>ASME senior volunteer leadership play an integral role in the development and execution of the Society’s Integrated Operating Plan.</td>
<td>Tom Costabile</td>
<td>On Track</td>
<td>On Track</td>
<td>On Track</td>
<td>A new process that fully engages senior volunteer leaders for FY19 planning/budget and IOP development was prepared and is being implemented.</td>
</tr>
</tbody>
</table>

Projected results as of 5.31.18
Date Submitted: May 15, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors
From: Committee on Finance and Investment
Presented by: William Garofalo, Associate Executive Director Finance
Agenda Title: Financial Update

Agenda Item Executive Summary:
Presentation of the Fiscal Year 2018 Financial Results.

Proposed motion for BOG Action: None.

Attachments: Information to be distributed prior to June 3, 2018
ASME FY2018 April YTD Financial Update

William Garofalo, Associate Executive Director, Finance

June 3, 2018
Brief Description – High level review to the Board focused on changes since March update

Desired Outcome – Information only to raise the BOG’s knowledge

Questions – Please ask questions during the presentation

Duration – Presentation is 7 slides will last 10 minutes
## ASME FY18 April Financial Results – vs. Budget

### Actual vs. Budget

<table>
<thead>
<tr>
<th></th>
<th>Actual ($)</th>
<th>Budget ($)</th>
<th>Variance ($)</th>
<th>Variance %</th>
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</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$8.7</td>
<td>$9.0</td>
<td>($0.3)</td>
<td>(0.3%)</td>
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<tr>
<td>Expense</td>
<td>$9.5</td>
<td>$10.9</td>
<td>$1.4</td>
<td>12.8%</td>
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<tr>
<td>Net</td>
<td>($0.8)</td>
<td>($1.9)</td>
<td>$1.1</td>
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</table>

*Note: The chart shows a 0.3% unfavorable variance in Revenue and a 12.8% favorable variance in Expense.*
ASME FY18 April YTD Financial Results – vs. Budget

<table>
<thead>
<tr>
<th></th>
<th>Actual</th>
<th>Budget</th>
<th>Variance $</th>
<th>Variance %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenue</td>
<td>$91.9</td>
<td>$90.0</td>
<td>$1.9</td>
<td>2.1%</td>
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<tr>
<td>Expense</td>
<td>$88.9</td>
<td>$98.7</td>
<td>$9.8</td>
<td>9.9%</td>
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<tr>
<td>Net</td>
<td>$3.0</td>
<td>($8.7)</td>
<td>$11.7</td>
<td></td>
</tr>
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</table>

2.1% favorable
9.9% favorable
Recent Highlights

Offshore Wind Energy B2B Forum was well attended with total registration of 85 attendees, significantly higher than anticipated.

The inaugural AABME event saw an attendance of 60 registrants; the premise of the event was to connect members of the bioengineering landscape.

E-Fests East at Penn State University had attendance of 1,120 registrants from 10 different countries, spanning 114 schools.

Publications sale to a consortium in Brazil which will generate $1.4M in new revenue over next 3 years completed.

Successful renewals of several key reseller contracts completed.
Questions?
### ASME FY18 April YTD Financial Results – vs. Budget

<table>
<thead>
<tr>
<th>Product Line</th>
<th>Actual Revenue</th>
<th>Actual Expense</th>
<th>Actual Net</th>
<th>Budget Revenue</th>
<th>Budget Expense</th>
<th>Budget Net</th>
<th>Actual vs Budget Revenue</th>
<th>Actual vs Budget Expense</th>
<th>Actual vs Budget Net</th>
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</thead>
<tbody>
<tr>
<td><strong>Revenue</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Standards</td>
<td>$36,107</td>
<td>$10,070</td>
<td>$26,037</td>
<td>$32,672</td>
<td>$10,290</td>
<td>$22,382</td>
<td>$3,435</td>
<td>$220</td>
<td>$3,655</td>
</tr>
<tr>
<td>CA &amp; Process Mgmt</td>
<td>23,613</td>
<td>12,937</td>
<td>10,675</td>
<td>25,064</td>
<td>14,986</td>
<td>10,078</td>
<td>(1,451)</td>
<td>2,049</td>
<td>998</td>
</tr>
<tr>
<td>Publishing</td>
<td>10,672</td>
<td>6,417</td>
<td>4,256</td>
<td>11,188</td>
<td>6,577</td>
<td>4,611</td>
<td>(516)</td>
<td>161</td>
<td>(355)</td>
</tr>
<tr>
<td>Learning &amp; Development</td>
<td>4,223</td>
<td>4,204</td>
<td>19</td>
<td>4,387</td>
<td>4,450</td>
<td>(63)</td>
<td>(164)</td>
<td>246</td>
<td>82</td>
</tr>
<tr>
<td>Technical Events</td>
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ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 10, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors
From: John Goossen, Chair of Strategy Advisory Committee; Josh Heitsenrether, Managing Director, Marketing
Presented by: Josh Heitsenrether and John Goossen
Agenda Title: SAC Discussion: Membership

Agenda Item Executive Summary:

Josh Heitsenrether will present information related to current ASME membership trends including the number of members, trending average age, effective dues rate, student member retention, lifetime value, member vs. non-member purchases, average tenure, service cost per member, etc.

John Goossen will lead a discussion with the Board on the strategic role that membership plays within ASME.

Proposed motion for BOG Action:
None

Attachment:
PowerPoint presentation to be distributed prior to June 3, 2018
SAC: Membership Discussion

Review of Membership Data
Josh Heitsenrether, Managing Director, Marketing | Media | Membership
John Goossen, Chair of Strategy Advisory Committee
ASME Board of Governors Meeting
Vancouver, Canada
June 2018
What to Expect from Presentation

• **Brief Description** – Provide the Board with information about the current trends in membership so we can have a generative discussion. A similar presentation was given to SAC in April.

• **Desired Outcome** – Engage the Governors in a data-driven discussion about membership which will help inform future decisions.

• **Questions** – Please ask clarifying questions throughout the presentation but hold general questions until after the presentation.

• **Duration** – 45 minutes total.
  * Presentation: 10-15 Minutes; Discussion: 30 Minutes.
Membership Counts – 1/31 Pre Drop vs 6/30 Fiscal Year

% Overall Dropped

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Professional Members

Student Members
Member Demographics: Gender

Professional Members

Student Members

Beginning in FY'16 Membership began process to capture missing information of Membership profile and improve data collection.
### Member Demographics: Geography

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Membership By Career Stage

MEMBERSHIP SEGMENTS

- Mid/Late Career Engineers
- Life/Retiree
- Student Member
- Early Career Engineers

Appendix 2.4.
Page 7 of 17
Distribution of Membership Types

- Member, Fellow, Affiliate: 44%
- Member 1-4 years out of School: 5%
- Retired Member: 3%
- Life Member (Paying Service Charge): 6%
- Life Member (No Service Charge): 20%
- Student Member: 12%
**Student to Professional Transition Rate**

- **FY'15**: 29%
- **FY'16**: 28%
- **FY'17**: 26%
- **YTD 4/18**: 27%
- **FY'19 Projection**: 30%

**INDUSTRY BENCHMARK**

- Student To Full Membership Conversion
  - 32% (mean) / 24% (median)

*Source: 2017 Membership Marketing Benchmarking Report (Marketing General Inc.)*
Membership Dues & Affinity Revenue

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ASME Non-Dues Purchases by Individuals – FY17
Member | Lapsed Member | Non-member (in 000’s)

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<tr>
<td>Learning &amp; Development</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fundraising</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standards &amp; Certification</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publications*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Misc</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

% Revenue - Current & Lapsed Members
- 39%
- 36%
- 52%
- 98%
- 18%
- 38%
- 30%
### Key Membership Metrics

<table>
<thead>
<tr>
<th></th>
<th>FY'15</th>
<th>FY'16</th>
<th>FY'17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Member Renewal Rates</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Members</td>
<td>78.20%</td>
<td>80.30%</td>
<td>90.30%</td>
</tr>
<tr>
<td>Student Members</td>
<td>31.40%</td>
<td>38.10%</td>
<td>33.40%</td>
</tr>
<tr>
<td><strong>Member Average Tenure</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Members</td>
<td>4.6</td>
<td>5.1</td>
<td>10.3 yrs</td>
</tr>
<tr>
<td>Student Members</td>
<td>1.5</td>
<td>1.6</td>
<td>1.5 yrs</td>
</tr>
<tr>
<td><strong>Lifetime Value of a Member (LTV)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Professional Members</td>
<td>$977</td>
<td>$1,067</td>
<td>$2,265</td>
</tr>
<tr>
<td>Student Members</td>
<td>$49</td>
<td>$56</td>
<td>$68</td>
</tr>
<tr>
<td><strong>Net Promoter Score (NPS)</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>+14</td>
</tr>
</tbody>
</table>

### INDUSTRY BENCHMARK

Professional Member Renewal Rate
77% (mean) / 80% (median)

*Source: 2017 Membership Marketing Benchmarking Report (Marketing General Inc.)*
**Member Satisfaction**

**Satisfaction of 8-10 (Net)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>US/CA</td>
<td>40%</td>
</tr>
<tr>
<td>International</td>
<td>50%</td>
</tr>
<tr>
<td>Student</td>
<td>41%</td>
</tr>
<tr>
<td>Early Career</td>
<td>38%</td>
</tr>
<tr>
<td>Later Career</td>
<td>47%</td>
</tr>
<tr>
<td>Member</td>
<td>47%</td>
</tr>
<tr>
<td>Lapsed Member</td>
<td>32%</td>
</tr>
<tr>
<td>Non-Member Transactional</td>
<td>50%</td>
</tr>
<tr>
<td>Non-Member Non-Transactional</td>
<td>39%</td>
</tr>
<tr>
<td>Extremely familiar with ASME</td>
<td>60%</td>
</tr>
<tr>
<td>Very familiar</td>
<td>52%</td>
</tr>
<tr>
<td>Somewhat familiar</td>
<td>36%</td>
</tr>
<tr>
<td>Not too familiar</td>
<td>11%</td>
</tr>
</tbody>
</table>

**8-10 (Net)**

<table>
<thead>
<tr>
<th>Satisfaction Level</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completely satisfied</td>
<td>43%</td>
</tr>
<tr>
<td>10</td>
<td>7%</td>
</tr>
<tr>
<td>9</td>
<td>11%</td>
</tr>
<tr>
<td>8</td>
<td>25%</td>
</tr>
<tr>
<td>7</td>
<td>22%</td>
</tr>
<tr>
<td>6</td>
<td>14%</td>
</tr>
<tr>
<td>5-3</td>
<td>19%</td>
</tr>
<tr>
<td>2-0</td>
<td>3%</td>
</tr>
</tbody>
</table>

Total: 9

Source: ASME Segmentation Study 2017-2018
Q40 - Overall, how satisfied are you with ASME? (n=1599)
Lapsed Member Study: Main reasons for Canceling ASME Membership (Students & Early Career Engineers)

Q. What were the main reasons for canceling your membership in ASME? (n=1,044)

- Cost
- Lack of activities in local student chapter
- Lack of active local section
- Irrelevant information
- Changed my profession
- Too conservative
- Other

Undergraduate Students: 
- Cost: 70%
- Lack of activities in local student chapter: 20%
- Lack of active local section: 30%
- Irrelevant information: 10%
- Changed my profession: 5%
- Too conservative: 5%
- Other: 15%

Graduate Students: 
- Cost: 50%
- Lack of activities in local student chapter: 30%
- Lack of active local section: 40%
- Irrelevant information: 15%
- Changed my profession: 5%
- Too conservative: 5%
- Other: 25%

Early Career Engineers: 
- Cost: 75%
- Lack of activities in local student chapter: 25%
- Lack of active local section: 50%
- Irrelevant information: 10%
- Changed my profession: 5%
- Too conservative: 5%
- Other: 15%
What Engineers Want from a Professional Association

1. Provides the latest research/publications in areas that interest me
2. Provides the latest research/publications in emerging engineering topics
3. Has the training I need to keep me up-to-date in my career
4. Sets the codes/standards for mechanical devices to ensure quality/safety
5. Is a “go to” source for codes/standards
6. Provides content that expands perspective on things I care about
7. Provides opportunities to be involved w/ technical committees/codes/standards
8. Promotes innovation in the industry
9. Provides career resources and advice
10. Alerts me to innovations/news through newsletters/other publications
11. Serves as stewards to profession to ensure ethical behavior/integrity/respect
12. Promotes the value of engineering to the general public
13. Promotes the engineering industry as a whole
14. Is great for networking
15. Promotes education among industry professionals
16. Provides workforce development opportunities
17. Provides access to industry experts
18. Provides unbiased info/recommendations to public policy makers
19. Promotes the use of standards globally
20. Is a good value for the money
21. Cultivates relationships and engagement with corporate leaders
22. Provides ways to volunteer/give back to profession
23. Offers opportunities for local engagement
24. Focuses on bringing best/brightest students into the field
25. Serves as a content-filter; curated and evaluated by experts
26. Provides leadership support for local and regional chapters
27. Provides discounts on content, conferences, training etc.
28. Offers a wide variety of conferences
29. Provides awards to recognize the best/brightest innovations/leaders
30. Has a robust offering of affiliate programs

Data in the chart are max/diff results that have been converted to index scores. Index scores are best interpreted in terms of their relationship to each other.

(n=1599)
Members and leaders differ in what they want

**Items Wanted from a Professional Association**

**TOP ITEMS AMONG SURVEY RESPONDENTS**

1. Provides the latest research and publications in areas that interest me
2. Provides the latest research and publications in emerging engineering topics
3. Has the training I need to keep me up-to-date in my career
4. Sets the codes and standards for mechanical devices
5. Is a "go to" source for codes and standards
6. Provides content that expands my perspective on the things I care about

**TOP ITEMS AMONG LEADERSHIP GROUP**

1. Is great for networking
2. Provides opportunities for involvement with technical committees and/or codes and standards
3. Sets the codes and standards for mechanical devices
4. Provides the latest research and publications in emerging engineering topics
5. Provides ways to volunteer/give back to the profession
6. Provides unbiased information and recommendations to public policy makers

Only two of the top six items are in-kind among survey respondents

Source: ASME Segmentation Study 2017-2018
Fiduciary Q&A

• Questions for Josh about the numbers?

• Questions for Josh about trends, perception of membership, our strengths/weaknesses, dependencies?

Generative Discussion Topics

• How else might we look at membership?

• Is the number of members important to us or the number of individuals who are involved and participate with ASME important?

• Do we serve the public first with a prioritized focus on members?
Date Submitted: May 10, 2018  
BOG Meeting Date: June 3, 2018  
To: Board of Governors  
From: John Goossen, Chair of Strategy Advisory Committee  
Presented by: John Goossen  
Agenda Title: Report from 2018 Strategy Advisory Committee  

Agenda Item Executive Summary:  

FY2018 was the Strategy Advisory Committee’s inaugural year. This brief report will contain a status report of activities (e.g., development of 10 Year Strategic Goals, creation of an ASME-wide communications plan, updated wording on Strategy, etc.) and recommendations for the Board’s consideration.

Proposed motion for BOG Action:  
None; for information only.

Attachment:  
PowerPoint Presentation (to be distributed prior to June 3, 2018)
SAC year end update and recommendations to the Board of Governors

ASME Board of Governors
June 3, 2018
John Goossen, Chair of Strategy Advisory Committee
FY18 SAC Accomplishments

Strategy Advisory Committee (SAC) launched. Chair selected by the committee in August.

Enterprise Planning Document template first envisioned by SAC, included input from PEDT, SMC Chair, SAC Chair, EMT, and staff representatives from across ASME.

- Approved by PEDT on Dec 14, 2017
- Completed documents completed by Sectors and Operating Units and reviewed in Spring 2018 and used to support develop of the IOP

- Environmental Scan material was reviewed and work was initiated on simplified scenario planning which was used to support development of the Strategic Goals.
FY18 SAC Accomplishments (continued)

16 Strategic Goals flowing from the Society Goals were developed and approved by the BOG in April.
- Strategic Goals were used to provide finer definition and clarity to the Society Goals and more informed direction to the development of 3 and 1 year operating goals

Digital Engineer and Membership exploratory initiatives were proposed to the BOG and have been initiated.

Hoshin Matrix is being defined to best represent, monitor, and illustrate the alignment of the strategic elements.

- Created Communications Plan for Strategy (and IOP)
  - Requires ongoing implementation (e.g., presentations during IMECE, Code Week, GLDC, Cross-sector leadership training, All Staff meeting, etc.; two pager posted on asme.org; etc.)
Recommendations
SAC Recommendations for BOG to Continue/Consider in FY19

1. Perform annual revision of Enterprise Planning Document template – include the 16 Strategic Goals and other modifications identified during FY18 review.

2. Continue Environmental Scan work in critical areas (membership, advanced manufacturing, digital engineer) to support the strategy and implementation of key initiatives.

3. Formalize a process for “simplified scenario planning” to best utilize and incorporate environment input to further refine the going forward strategy and implementation plans.
SAC Recommendations for BOG to Continue/Consider in FY19 (continued)

- Work with SMC and COO to develop 4 to 6 comprehensive long term (10 year) SMART operating goals that focus the activities of the society and support the Strategic and Society Goals.
- Continue enterprise-wide communications.
- Update SAC/BOG on process made on Digital Engineer and Membership model(s) initiatives.
- Implement the Hoshin Matrix and set of metrics for BOG to monitor process.
Investigate and evaluate global threats and opportunities, especially China and appropriate engagement models for ASME

Discuss M&A’s role in Strategy

Invite external speaker(s) to discuss major tech shifts where ASME might be able to play

Continue to implement the responsibilities of the SAC outlined in its Operation Guide
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 10, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors
From: Elena Gerstmann, Deputy, Executive Operations
Presented by: Elena Gerstmann
Agenda Title: Status Report on July 2017 Board Retreat

Agenda Item Executive Summary:

Work continues on the output from the July 2017 Board retreat. A status report will be presented to the Board.

Proposed motion for BOG Action:
None.

Attachments: Powerpoint presentation to be distributed prior to June 3, 2018
2017 Board Retreat Follow-Up
Elena Gerstmann, PhD, Deputy, Executive Operations

ASME Board of Governors Meeting
June 3, 2018
Vancouver, B.C.
What to Expect from Presentation

• **Brief Description** – Provide a status report on action items from the July 2017 Board retreat.
• **Desired Outcome** – To provide the Board and guests with a line-of-sight into projects coming from the retreat.
• **Questions** – Please ask clarifying questions throughout the presentation but hold general questions until after the presentation.
• **Duration** – Presentation: 5 Minutes; Discussion: 5 Minutes.
The Story in Short

Challenge

ASME needs to stay relevant in a changing world and needs a robust strategy and common goals that all can unite behind.

Opportunity

We are well positioned to lead in our core business, grow in key technologies and leverage the passion and expertise of our society to become the go-to organization serving core engineering constituencies.

The Payoff

Are recognized as the leader and essential resource for mechanical engineers and other technical professionals globally for solutions that benefit humankind—leading in key technologies that impact the world.

Focal Point

Over the next three years, leveraging our Strategy and Integrated Operating Plan, we continue moving forward “together” on our five Strategic Actions and realize our Enterprise Strategy over the next 10 years.

How We Deliver

Reclaim the hearts, minds and soul of ASME and secure our Leadership Position while increasing Engagement, Collaboration and diversity.

How We Deliver

Strengthen our Technology and Solutions Portfolios to expand our influence and reach.

How We Deliver

Fulfill our Mission by clarifying and aligning to our strategy and operating goals.
How We Deliver

Strengthen our Technology and Solutions Portfolios to expand our influence and reach.

Fulfill our Mission by clarifying and aligning to our strategy and operating goals.

Reclaim the hearts, minds and soul of ASME and secure our Leadership Position while increasing Engagement, Collaboration and diversity.

People

A. Communicate, celebrate and collaborate to energize and engage the hearts, minds and soul of ASME
B. Expand and reinvigorate ASME’s diverse global community

Products

A. Diversify our reach and connection to key stakeholders and future markets for all products and services
B. Ensure the strength and future of S&C

Process

A. Release our Strategy now and communicate and clarify it across ASME
B. Develop a robust strategic plan and metrics which enables alignment across ASME
C. Transform how we prioritize, operationalize and measure what we choose to pursue
D. Provide clarity around 2 key issues to move forward
# Projects Status Sheets

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Description</th>
<th>Status</th>
<th>Progress</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project A</td>
<td>Development</td>
<td>Completed</td>
<td>100%</td>
<td>Aug 31</td>
</tr>
<tr>
<td>Project B</td>
<td>Testing</td>
<td>In progress</td>
<td>75%</td>
<td>Sep 15</td>
</tr>
<tr>
<td>Project C</td>
<td>Implementation</td>
<td>In progress</td>
<td>50%</td>
<td>Oct 1</td>
</tr>
</tbody>
</table>

### Appendix 2.6

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**ASME**

Setting the Standard

6/19/2018
1) Fulfill our Mission by clarifying and aligning to our strategy and operating goals

- Develop a robust strategic plan and metrics, which enables alignment across ASME
  - The IOP contains one and three-year operating goals.

- Transform how we prioritize, operationalize and measure what we choose to pursue
  - BOG approved 10-year strategic goals.

- Provide clarity around two key issues to move forward
  - The Board approved a new 10-year operating goal related to revenue in April 2018.
2) Strengthen our **Technology** and **Solutions Portfolios** to expand our impact and reach

- Develop educational and outreach engagement packages / toolboxes tied to the selected technologies (5+1).
  - John Hasselmann and team have a proposed action plan for review.
  - Held 3 successful Congressional briefings, IAB spring meeting, and engineering education summit, which featured government, policy, tech, and connection to ASME strategy.

- **Conduct a lean exercise on standards.**
  - The project team has been meeting regularly and regular updates will be given to the Council.

- **Communicate the value of standards—gather and share success stories.**
  - The video is being finalized and will be debuted at the Council meeting in Vancouver.
3) Reclaim the hearts, minds and soul of ASME and secure our Leadership Position while increasing Engagement, Collaboration and diversity and diversity through this holistic engagement model

- **Explore multiple levels of membership**
  - A presentation will be provided to the BOG on ASME membership and a new membership model initiative.

- **Increase industry engagement / recognition**
  - Per the results of the IAB interviews, staff is working to update the operating documents of the IAB, as well as assess current IAB membership and is reaching out to new potential companies to fully align the IAB to ASME's technology strategy areas.
Overall Status

- Three Focus Areas
  - Eight Big Areas
    - 33 Subtasks
      - 31 - Completed/Ongoing
      - 2 - Delayed – to be completed FY18
Date Submitted: May 14, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors
Presented by: Jim Coaker, Bryan Erler, Caecilia Gotama, Sriram Somasundaram, and Jonathan Jennings
Agenda Title: Comments from Outgoing Secretary/Treasurer, Governors, and ECLIPSE Intern

**Agenda Item Executive Summary:**

At the last Board meeting of each fiscal year, outgoing members are asked to provide remarks. Each individual will be given a few minutes to present.

**Proposed motion for BOG Action:** None.

**Attachments:** None
Date Submitted: May 14, 2018  
BOG Meeting Date: June 3, 2018

To: Board of Governors  
Presented by: Charla Wise, ASME President  
Agenda Title: Reflections of Past Year

**Agenda Item Executive Summary:**

President Wise will give her reflections of this past year.

**Proposed motion for BOG Action:** None.

**Attachments:** None
Date Submitted: May 18, 2018
BOG Meeting Date: June 3, 2018
To: Board of Governors
From: Sector Management Committee
Agenda Title: Sector Management Committee Report

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:
None.

Attachments: Document Attached
I. SMC Operations

- The SMC will meet in Vancouver, British Columbia during the Annual Meeting. Rick Marboe and Jeff Patterson will serve as co-chairs for fiscal year 2019. The committee will vote on a new VOLT Chair, as well as discuss the IOP process and integrated projects.

- At the Annual Meeting, VOLT will offer a new training for incoming/new chairs of the various units within ASME. The New Chair Orientation and Training will be held on Sunday, June 3, 2018 from 8:00 am to 12:00 noon.

II. Sector Highlights

Standards and Certification – Sam Korellis/Claire Ramspeck

Quarterly Highlights:

- The Council on Standards and Certification (CSC) last met in person on November 6, 2017 during IMECE in Tampa, FL. They also held a meeting via conference call on February 8, 2018. The next meeting will be held in conjunction with the Annual Meeting in Vancouver on June 5, 2018. The Council furthermore decided it would be beneficial to hold a meeting in conjunction with Boiler Code Week in Atlanta, GA on November 16, 2018.

- At its November 6 meeting, CSC received updates from its four strategy Task Teams on implementation of their recommendations related to 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 actions completed to date are the issuance of a brochure containing a compilation of best practices being utilized by various committees that can be used by other committees; the distribution of a protocol to facilitate committees’ identification and evaluation of potential derivative products related to their core products. Subsequent to and separate from the Council meeting, a list of FY 18 Integrated Operating Plan (IOP) projects was developed for the entire enterprise. One of those projects was to examine the standards development process to more rapidly identify emerging needs and to improve the process of creating or revising a product. Therefore, this project team will be taking the lead on these activities, including seeking input from volunteers, and regular updates will be given to the Council. The Council was also given a detailed presentation on activities within S&C on the five core technologies.

- S&C has formed two focus groups: one to review what activities are of interest to ASME in China, and the second on Advanced Digital Technologies (as it relates to S&C). Both focus groups have been active and meeting regularly via phone. Updates will be provided in Vancouver.
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.

The Council and staff are looking closely at growth in both product deliverable type and participation by younger and international members.

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

Quarterly Highlights

- Technical Events and Content (TEC) Council
  - TEC Council met in person on March 4, 2018, concurrent with the Group Leader Development Conference (GLDC) in Orlando, FL.
  - TEC Council held a webconference on January 8, 2018.

- Design, Materials, and Manufacturing (DMM) Segment
  - DMM held a face to face meeting at the GPS Leadership Training event in Orlando, Florida on Sunday, March 4, 2018 and met with several DMM Division Leaders
  - DMM held its quarterly teleconference on May 7, 2018
  - DMM Chair (Tim Simpson) and DMM Rep to TEC (Gloria Wiens) are completing their one-year terms this FY. DMM voted to keep both Tim and Gloria in their roles for another year (July 2018 – June 2019). DMM has started succession planning and is recruiting new members to serve on the SLT.
  - DMM Member, Larry Dickinson, attended a leading, competitor additive manufacturing expo (RAPID) in April 2018

- Gas Turbine Segment (GTS)
  - Segment Leadership Team (SLT) held teleconference meetings in January and February 2018.
  - An in-person meeting was held during the GLDC event in Orlando, FL, March 3-4, 2018.
  - SLT will finalize their strategic plan in May and roll it out at their in-person meeting in June at the Turbo Expo event.
  - Delivered presentation to the Global Development Team at their meeting during OTC in Houston regarding the international activities of the segment and the division. In further discussions with Beijing office about international GTS activities in China.

- Energy Conversion and Storage (ECS) Segment
  - ECS SLT held a face-to-face meeting in ASME’s Washington, DC office on April 25-26, 2018. ECS continues to hold monthly telecons.

- Energy Sources and Processing (ESP) Segment
  - The Offshore Technology Conference (OTC) was held April 30-May 3, 2018 in Houston, TX – celebrated 50 years, >61,300 attendees, >2,300 exhibitors
  - ASME Offshore Wind Energy B2B Forum was held on May 2, 2018 in Houston, TX, co-located with OTC (https://offshorewind.asme.org/home)
  - OTC Asia was held March 20-23, 2018 in Kuala Lumpur, Malaysia.
  - ESP conducted a face-to-face meeting in ASME Houston office April, 2018. ESP continues to hold monthly telecons.
Engineering Sciences Segment (ESS)
- AABME CONNECT was held on May 14, 2018 in Minneapolis MN, co-located with V&V Symposium ([https://aabmeconnect.asme.org](https://aabmeconnect.asme.org)).
- The Joint Rail Conference (JRC) was held April 18-20, 2018 in Pittsburgh, PA.

Technical Committee on Publications and Communications (TCPC)
- Newly launched in 2018, the *Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering System* has been publishing on time; third issue in production; author technical paper submissions are strong.
- Newly launched in 2018, the *Journal of Engineering and Science in Medical Diagnostics and Therapy* has been publishing on time; third issue in production; author technical paper submissions are strong.
- Igor Pioro was approved for a 2nd term as Editor, *Journal of Nuclear Engineering and Radiation Science*, through December 31, 2023.
- Mohammed Zikry was approved for a 2nd term as Editor, *Journal of Engineering Materials and Technology*, through December 31, 2023.
- Approved increase for Technical Briefs from 2500 to 4000 words.
- Various associate editors for a number of journals were approved.

Upcoming Activities/What’s on the Horizon?

- **TEC Council**
  - Three new Senior Managers for Segment Operations are expected to join the Conference & Events staff in FY18-Q4.
  - The approved recommendations of the Tiger Team on Segregated Accounts will be implemented starting with FY19 events.
  - TEC Council plans to meet on June 2, 2018 in Vancouver, BC, Canada, concurrent with the ASME Annual Meeting
    - TEC Council is expected to approve the FY19 TEC Development Fund projects totaling $150k; this is the first series of projects to be funded from the new TEC Development Fund.
    - The Senior Vice President (SVP) election will be conducted

- **Design, Materials, and Manufacturing (DMM) Segment**
  - The first two industry forums in manufacturing and robotics will be offered in June 2018
    - Additive Manufacturing Leadership Forum, June 19, 2018
      [https://additivemanufacturing.asme.org/](https://additivemanufacturing.asme.org/)
    - Robotics for Inspection and Maintenance, June 26-27, 2018
      [https://roboticsforinspection.asme.org/](https://roboticsforinspection.asme.org/)

- **Energy Conversion and Storage (ECS) Segment**
  - ASME Power & Energy Conference will be held June 24-28, 2018 in Orlando, FL.
  - The Pressure Technology forum, Resolving the Challenges of Power Plant Cycling, will be held on June 25, 2018 in Orlando FL—co-located with Power&Energy ([https://powerplantcycling.asme.org/home](https://powerplantcycling.asme.org/home)).

- **Energy Sources and Processing (ESP) Segment**
  - OMAE conference will be held June 17-22, 2018 in Madrid, Spain.
  - PVP conference will be held July 15-20, 2018 in Prague, Czech Republic
• Next face-to-face ESP SLT meeting is planned for June 17, 2018 during OMAE conference

Gas Turbine Segment (GTS)
• Turbo Expo will be held June 11-15, 2018 in Oslo, Norway.
• Turbo Expo will debut the Maintenance Repair and Overhaul (MRO) in the Light of Digitalization theme during the keynote presentation and have a concentrated day of plenary sessions, panels and technical session on the MRO/Digitalization topic, Wednesday, June 13, 2018.
• Advanced Manufacturing and Repair for Gas Turbines is a new event being developed by GTS. With support, we hope to hold this event in the first quarter of 2019 with the DMM Segment.

Technical Committee on Publications and Communications (TCPC)
• TCPC is preparing a proposed Society Policy change to the Journal Editor Term Policy; expected August 2018.

Public Affairs & Outreach (PA&O) – Kalan Guiley/John Hasselmann

Engineering for Global Development & Engineering for Change

Quarterly Highlights:

• Engineering for Change partnered with ASME E-Fests, reaching over 200 students—that success has yielded a request for a social impact-focused competition at the 2019 E-Fests
• EGD paper submissions at IDETC rose to 20 in 2017 (100% increase from 2015), with four conferences accepting EGD papers (zero in 2013)
• Engineeringforchange.org’s reach has grown to 1.1 million individuals and site traffic is averaging over 120,000 page views per month, with 100 attendees for monthly webinars
• ISHOW platform has aided 100 startups in their hardware journeys (25 in 2018), bolstered by a group of 16 partners and sponsors (e.g., Autodesk and the Lemelson Foundation)
• EGD has secured a $50,000 pilot program with the World Bank’s Climate Business Innovation Network to deliver our process to investees in Ethiopia and Morocco

Upcoming Activities/What’s on the Horizon?

• “Sustainable Energy for All” session at Turbo Expo in Oslo: there will be an EGD panel session on June 11
• ISHOW USA in Washington, D.C.: June 21
• The 6th annual EGD Forum will take place at IDETC in Quebec City in August 2018
• Impact Engineered will focus on the theme of “connected for impact” in October 2018 in New York—sessions will focus on sustainable design, mobility, and the link between global and local communities

Engineering Education
**Quarterly Highlights:**

- ASME/NIST Standards Education Infusion Modules tested in Fall 2017 and Spring 2018 for dissemination on ASME.org in fall 2018—modules were presented at NIST’s 5th Annual Standards Education Workshop in November 2017.

- Proceedings of a Workshop (National Academies Press) published *Engineering Societies and Undergraduate Engineering Education*
  - EE was part of the planning process, contributed to the book’s content, and helped with the formation of NAE’s next workshop on faculty development.

- ASME/WEPAN—Transforming Engineering Culture to Advance Inclusion & Diversity (TECAID): the NSF-funded TECAID grant completed logic model and learning modules, which were disseminated to the MEDH community.
  - This is a more-focused effort to institutionalize the work within EE—the first webinar out of a four-part series was held in February 2018.

- 2018 International ME Education Leadership Summit (MEED), San Diego, March 14-17
  - There were 136 attendees; the theme was “Mechanical Engineering: Safety and Security;” and the Church, Sparks, and Zwiep Medals were awarded.

- ABET Board of Delegates & Area Delegation meetings (Baltimore, Md., March 23-25).

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

- Finalizing location and chairs for 2019 MEED Summit.

- Five ASME 2018-2019 Graduate Teaching Fellowships to be announced end of May.

- 50K Coalition Annual Convening: May 31-June 1
  - ASME is one of many societies helping to develop a comprehensive plan to increase diversity throughout engineering and produce 50,000 underrepresented minority and women engineering graduates annually by 2025.

- Assignments for ABET/ASME fall 2018 visit in progress.

- NAE Workshop on Diversity: June 4 at University of Cincinnati, Ohio.

- ASEE Annual Conference: June 23-27 in Salt Lake City, Utah.

- ASME Committees on Engineering & Engineering Technology Education: July 18 in conjunction with ABET Commission meetings in Baltimore, Md.

- Trip to China in August 2018 to plan the joint engineering education leadership summit.

- Engineering Ambassadors Network training, August 2018 at WPI, Mass.

**Government Relations (GR):**

**Quarterly Highlights:**

- Working with the Congressional Manufacturing and R&D Caucuses, GR sponsored three Congressional briefings on lasers, manufacturing, and S&T/national security.

- GR convened its annual public policy events in Washington, D.C. on April 23-24 with staff from ASME’s technical divisions and approximately 90 ASME members, including members.
of the TAPs, public policy task forces, ECLIPSE internship program, and various governance committees:

- Committee on Government Relations meeting, featuring Congressional staff.
- ASME Roy V. Weight Lecture and Award Dinner, featuring U.S. Senator Gary Peters and Clayton Daniel Mote, Jr., National Academy of Engineering (NAE) president.
- The 15th Annual Engineering Public Policy Symposium, including over 150 leaders from 45 professional engineering societies, officials from Executive branch, and Congressional staff (followed by Congressional visits for over 40 ASME members).

- GR has released 13 position statements since November 2017.

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

- Working with key Congressional caucuses, GR is currently planning a Congressional briefing on biomanufacturing for June 14, which will highlight two ASME technology areas, featuring U.S. Senator Jeanne Shaheen, Dean Kamen of ARMI & BioFabUSA, and other executives.

**Industry Advisory Board (IAB)**

**Quarterly Highlights:**

- Fifty-five representatives from industry, government, and academia; ASME leadership and staff; and a host of special guest speakers took part in the IAB 2018 spring meeting, April 9-10 in Washington, D.C.
  - The discussion focused on ways IAB member companies can better engage related to ASME’s strategic technology areas.
- IAB will hold a webinar on May 23 to discuss specific ways members and their companies can engage with the ASME engineering education.

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

- The 2018 IAB fall meeting will be held October 15-16 in Palo Alto, Calif. at HP headquarters.

**K12**

**Quarterly Highlights:**

- Largely from its new content—INSPIRE STEM Career Exploration—the INSPIRE program has reached over 90,000 students in nearly 1,300 schools across all 50 states.
  - Supported in the classroom by approximately 1,600 middle and high school teachers, INSPIRE has demonstrated an overall 112% knowledge gain by students in data visualization/interpretation, understanding algorithms, and design thinking/prototyping.
- INSPIRE classroom visits have been held and are scheduled in: Brooklyn, N.Y.; Charlotte, N.C.; Frederick, Md.; Hollywood, Fla.; Kansas City, Mo.; and Raleigh, N.C.
- Winners of the ASME Foundation/Future Engineers Challenge, Two for the Crew, were announced on March 14.
  - For this challenge, students were asked to invent a multifunctional object that combined two items into one to be 3-D printed by crew members aboard the ISS.
Upcoming Activities/What’s on the Horizon:

- ASME is reviewing the Engineering Ambassadors Network (EAN) for consideration as a primary pre-college outreach mechanism—in addition to reaching over 40,000 K-12 students each year, EAN also serves a powerful professional development platform for over 500 engineering college students.

- To connect ASME members with INSPIRE schools in their communities, an online platform is in development that will let volunteers request to visit an active school as well as allow INSPIRE teachers to ask for an engineer to participate in a classroom activity.

- Through a small UEF grant in support of the *Dream Big!* IMAX movie, ASME sections will be able to request support for K-12 student screening parties that optimally coincide with INSPIRE school locations—these events are designed to feature hands-on activities that showcase the E in STEM.

Student & Early Career Development (SECD) – Callie Tourigny/Anand Sethupathy

- SECD Council interviewed and voted on NC delegates and alternates
- Candidates and applications for the three SECD MAL positions being reviewed

Quarterly Highlights

ASME E-Fests & Student Programming Committee

- Three ASME E-Fests have been held: E-Fest Asia Pacific (DTU; Delhi, India), E-Fest West (Fairplex; Pomona, CA); E-Fest East (PSU; State College, PA)
- AP stats
  - 1150 registrations; 39 HPVC teams, 20 SDC teams, 19 OG Poster, 27 OG Oral, ~10 CAD Battle (CAD is a new addition to the model in FY18)
- West stats
  - 639 registrations; 17 HPVC teams, 19 SDC teams, 7 OG Poster, 8 OG Oral, ~16 CAD Battle
- East stats
  - 1120 registrations; 40 HPVC teams, 50 SDC teams, 13 OG Poster, 16 OG Oral, ~25 CAD Battle
- Planning is on-going for ASME E-Fests South America
- ASME EFx construct planning is on-going

Upcoming Activities/What’s on the Horizon?

- Launch ASME E-Fests South America at the end of July in Rio de Janeiro, Brazil.
- Coordinate CY 2019 ASME E-Fests cycle including: E-Fest Asia Pacific, E-Fest East, E-Fest West, E-Fest South America (Lima, Peru) and add an additional E-Fest Asia event (currently considering options in Singapore and Japan).
- IAM3D has new volunteer leadership and is in planning for ASME E-Fests in FY19.
Launch EFX in FY’19.

Community Development Team (CDT) Highlights

- Published a November 2017, January 2018, March and May issues of ME Today.
- The SECD Council voted/motioned to sunset the CDT (Community Development Team). It was passed unanimously as for February 6, 2018.
- ME Today returns to the ECEPC.
- SLTC and SSET would move under SPC.

Early Career Engineering Programming Committee (ECEPC)

- ASMEFutureME Mini-Talks held at IMECE 2017 (58 attendees, NPS 69%), E-Fest West (50 attendees, NPS 47%) and E-Fest East (50 attendees, NPS 22%). Twelve (12) mini-talks presented. Social Meetup (NPS 67%) held in conjunction with IMECE 2017 Mini-Talks.
- ASMEFutureME exhibited 3-days at E-Fest East & West celebrating 2018 graduates, providing brand awareness (as next steps in ASME involvement) and connected attendees to the ASMEFutureME Facebook.
- ASMEFutureME exhibited at the IMECE 2017 opening reception (Sunday), and sponsored Coffee Break (Monday) to meet n’ greet with attendees.
- ASMEFutureME conducted a pop-up at the IMECE 2017 registration (Saturday) – surveyed roughly 60 people.
- ASMEFutureME Social Meetup (professional networking event) was held with the ASME South Texas Section on Saturday, May 12, 2018 at the Karbach Brewing Co. (35 attendees (42 reg), NPS 50%).
- Released sixteen (16) video clips (December – March) on our YouTube channel, posted on .ORG and released on social media (FB and Twitter).

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 IMECE17 conference.
- 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.
- Published two issues of ME Today newsletter; March and May. Some of topics featured included “Employees: How to Push Back Without Putting Yourself at Risk”, “Engineering Technology Education in the United States”, “Making a Gigaton of Difference”, “Taking
Ownership as a New Engineer”, “Open source geospatial maps and cheap new tools improve farming in Africa”, “Equipping Development Actors to Practice Impact Design”.

- 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**

- Post-production will be underway for ECE interviews conducted at E-Fest West and East with Technology Services.
- Content development team to create a blog-series centered on the audio-recording focused on transitioning from college to work from the E-Fest mini-talks (West/East).
- ASMEFutureME Social Meetup will be held with the OC Section (May 24) and the Detroit Section (June 9) before the end of FY18.
- ASMEFutureME Mini-Talks will be planned for the P&E conference (June 25)
- ASMEFutureME Mini-Talks will be planned for the IMECE 2018 conference (November 2018)
- Other ASME conferences/venues will be identified to hold more mini-talks and social meetup events in FY19.
- Launch a ASMEFutureME LinkedIn page + plus build engagement through topic discussion
- Recruitment for new ECEPC MAL’s to fill open positions

**III. VOLT Academy – Marc Goldsmith/Clare Bruff**

**Quarterly Highlights:**

- A VOLT workshop entitled “Creating and Working in Effective Teams” was offered twice during IMECE. The presenter was Colonel Kyle Voigt, USAF, Ret. and the session was facilitated by Cindy Stong. A total of 55 volunteers participated in the sessions and feedback was very positive.
- A communications training for ASME’s Governors, Governors-Elect, Senior Vice Presidents, and Senior Vice Presidents-Elect was offered at IMECE. The session was facilitated by Brenda McClain. This was the second offering in our continuing development of ASME’s senior volunteer leaders’ communications skills.
- A train-the-trainer program for volunteer communications trainers was piloted at IMECE. Three volunteer trainers participated in the program, which was led by Brenda McClain. By the end of the fiscal year, all the trained trainers will have delivered communications training to other volunteers.
- Between January and March, VOLT delivered 3 training sessions via web conference for the Nominating Committee: an “Orientation to ASME and the Role of the Nominating Committee,” a “Briefing with the PEDT,” and “An Inclusive Approach to Nominating ASME’s Leaders.”
- The Cross-Sector Leadership Development Workshop was held April 19-21 in New York, to coincide with the April Board of Governors meeting. A total of 18 volunteers, representing the 4 sectors, the Group Engagement Committee, and the VOLT Academy participated.
The ECLIPSE Orientation and Leadership Workshop was held April 22-24 in Washington, DC, to coincide with the Engineering Public Policy Symposium. 14 ELIPSE interns participated. This session also marked the launch of VOLT’s communications trainers program. Two trained volunteer trainers delivered a 2-hour communications workshop to the current and incoming interns.

A briefing for candidates for Governor was held via webinar on April 30.

A briefing for candidates for ASME President was held in the New York office on May 9.

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

- A VOLT workshop entitled “Developing the Next Generation Leaders of ASME 2050” will be offered twice during the Annual Meeting. The Presenter will be Adrianne Troilo of the American Society for Engineering Education.
- There will be a reception for ECLIPSE interns and invited guests during the Annual Meeting on Saturday, June 2.
- A communications training for ASME’s Governors, Governors-Elect, Senior Vice Presidents, and Senior Vice Presidents-Elect will be offered during the Annual Meeting on Monday, June 4.
- A communications training for invited volunteers, entitled “Communicating with Confidence” will be offered during the Annual Meeting on Monday, June 4. This is being delivered as part of VOLT’s trained volunteer trainer communications program.
- There will be a briefing for the Nominees for Governor at the Annual Meeting on June 6 to prepare them to participate in their first Board meeting.

**IV. Group Engagement Committee – John Mulvihill/Elio Manes**

**Quarterly Highlights:**

- The inaugural Group Leadership Development Conference (GLDC) took place on March 2-3, 2018 in Orlando, FL. The annual GLDC is intended to provide guidance and assistance to volunteer leaders of ASME’s various groups to share experiences, learn new ways to engage with their constituents, learn about the Society’s strategic priorities and gain a better understanding of their role within the organization. Over 200 volunteer leaders participated. A post-conference survey had 94 responders (a 55% response rate), of which 92% indicated that they were satisfied with the meeting and over half said they were “very satisfied” with the event. Nearly all aspects of the event were rated as “Excellent” or “Good” by the overwhelming majority of survey respondents.
- A Group Leadership Webinar was held on April 23, 2018 to update volunteer leaders about important changes to ASME communications resulting from the General Data Protection Regulation (GDPR) that went into effect in Europe on May 25, 2018. Other topics of discussion included a review of the 2018 GLDC and general updates from GPS. A total of 95 individuals participated in the webinar.
- FY19 spend limits have been calculated and distributed to all groups for preparation of their FY19 annual plans.
• New communication guidelines were sent to all group volunteers the week of May 21, 2018. These new communications guidelines were developed so group volunteers are aware of how communications must be conducted, what can be communicated, how an individual’s personal information could be captured and used, etc.

• The existing volunteer list serve tool was taken offline on May 25, 2018 as it was not compliant with the new regulations. A replacement email system went online on June 1, 2018 and is expected to provide a better communications experience for both volunteers and members aligns to years of volunteer feedback about upgrading the old list serve tool.

• GPS conducted a webinar on May 30, 2018 with all group volunteers to review the new guidelines around communications, as well as to introduce group volunteers to some of the functionalities of the new mass email system.

• The GEC is updated the Operations Guide for Groups (Last Revision – 04/16/2015) and presented revisions to the SMC for approval.

• The GEC had a face-to-face meeting on June 4, 2018 at the ASME Annual Meeting in Vancouver, Canada.

Upcoming Activities/What’s on the Horizon?

• Planning for the 2019 Group Leadership Development Conference (GLDC) is underway, including issuing an RFP for a venue.

• GEC and GPS are working on developing a Procedures Guide for Groups to specify the steps by which the policies prescribed in the Operations Guide for Groups are put into effect.

• An Operations Guide for the Group Engagement Committee is under development.

• The GEC and staff from GPS and the ASME Foundation are developing recommendations to the Board of Governors on the establishment of policies and procedures for the making gifts, donations, grants and sponsorships to external organizations from group segregated funds.

• GPS is working with the TEC Sector staff and volunteers on the development and deployment of a process by which Divisions could apply for financial support for activities at ASME conferences from the new TEC Sector Development Fund, which goes into effect in FY19.
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 10, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors
From: Committee of Past Presidents
Presented by: Leila Persaud, Manager Honors & Fellows
Agenda Title: CY 2017 Fellows Listing

Agenda Item Executive Summary:

Attached for information is the listing of ASME Fellows elected in CY 2017.

Proposed motion for BOG Action: None

Attachment: Document Attached
2017 ASME Fellows

Duli Agarwal
Erian Armanios
Hashem Ashrafiuon
Jayasimha Atulasimha
Shorya Awtar
Beshah Ayalew
Victor Barocas
Oscar Barton
Saptarshi Basu
Philip Bayly
Vincent Belovich
Daisie Boettner
Gilles Bourque
Curt Bronkhorst
Charles Bruny
Timothy Burchell
Wayne Cai
Jay Cameron
Tat-Leung Chan
Yong Chen
Zengtao Chen
Stephen Ciatti
Jong Hyun Choi
John Clayton
Tianhong Cui
Steven Dedmon
Frank Delrio
Pete Deubler
Ryan Elliott
Alper Ertuk
Sergio Felicelli
Yan Fu
Thomas Gardner
Emmanuel Glakpe
Matthew Gounis
Jaime Grunlan
Ronald Hafner
Benjamin Hantz
Ibrahim Hassan
Xiaoming He
Christopher Hernandez
Ralph Hill
Jeffrey Holmes
Brendon Holt
Chun-yuh Huang
Kaushik Iyer
Robert Jessee
Zhihe Jin
Daniel Kearney
Nicole Key
Song-Chang Kong
Ellen Kuhl
Dimitrios Kyritsis
Laurel Kuxhaus
Kincho Law
Charles Lee
Phillip Lloyd
Deyu Li
Wei Li
Yiguang Li
Yaling Liu
Yucheng Liu
Ramkumar Madugula
Andreas Malikopoulos
Daniel McAdams
Brenton McLaury
Hui Meng
Terrence Meyer
Matthew Miller
Ellis Meng
John Minichielo
Andrew Nix
William Oates
Gbadebo Owolabi
Evangelos Papadopoulos
Ya-Jun Pan
Christiaan Paredis
Eric Pardyjak
Gyuhae Park
Brent Paul
Richard Pearce
William Proscia
Ivatury Raju
Joseph F. Rakow
Weiju Ren
Donald Rockwell
Lourdes Rosario
Malisa Sarntinoranont
Christian Sattler
Trevor Seipp
M. Keith Sharp
Sonya Smith
Kim Stelson
Robert Stakenborghs
Robert Stone
Haijun Su
Krishnan Suresh
Mark Tschopp
Irem Tumer
Costin Untaroiu
Gou-Jen Wang
Tza-Huei Wang
Jeffrey Weiss
Wayne Whiteman
Horace Whitworth
Sara Wilson
Alon Wolf
Chun Yang
Richard Yetter
Kenneth Yu
Lizheng Zhang
Yong Zhu
Olesya Zhupanska
Zheng Hong Zhu
Qingze Zou
Date Submitted: May 10, 2018
BOG Meeting Date: June 3, 2018

To: Board of Governors
From: Committee on Honors (COH)
Presented by: Yildiz Bayazitoglu, Chair of COH
Agenda Title: Approved Society Award Listing

Agenda Item Executive Summary:

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 3.

Attached for information is the listing of the COH approved awards for FY18.

Proposed motion for BOG Action:

None

Attachment: Documents Attached
2018 RECIPIENTS OF ASME HONORS AND AWARDS

Except as noted below, honors and awards will be bestowed at the International Mechanical Engineering Congress & Exposition
Pittsburgh, Pennsylvania
November 9-15, 2018

Achievement Awards

<table>
<thead>
<tr>
<th>ADAPTIVE STRUCTURES AND MATERIAL SYSTEMS AWARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diann E. Brei, Ph.D., Fellow</td>
</tr>
<tr>
<td>University of Michigan</td>
</tr>
<tr>
<td>1320 George G. Brown Laboratory</td>
</tr>
<tr>
<td>2350 Hayward Street</td>
</tr>
<tr>
<td>Ann Arbor, MI 48109-2125</td>
</tr>
<tr>
<td>For sustained contributions to the development of smart materials and structures, and the transition of designs in this area to industry; and for leadership in promoting smart materials and structures within the engineering community (The ASME 2018 Conference on Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS), September 10-12, 2018, at the Grand Hyatt San Antonio, Texas)</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>BERGLES-ROHSENOW YOUNG INVESTIGATOR AWARD IN HEAT TRANSFER</th>
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</thead>
<tbody>
<tr>
<td>Asegun Henry, Ph.D., Member</td>
</tr>
<tr>
<td>Georgia Institute of Technology</td>
</tr>
<tr>
<td>George W. Woodruff School of Mechanical Engineering</td>
</tr>
<tr>
<td>495 Technical Way NW</td>
</tr>
<tr>
<td>Atlanta, GA 30318</td>
</tr>
<tr>
<td>For introducing and formulating phonon transport based on correlation instead of scattering; and for developing high-temperature concentrated solar power based on liquid metals with a ceramic infrastructure</td>
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<table>
<thead>
<tr>
<th>PER BRUEL GOLD MEDAL FOR NOISE CONTROL AND ACOUSTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sean F. Wu, Ph.D., Fellow</td>
</tr>
<tr>
<td>Wayne State University</td>
</tr>
<tr>
<td>1797 New Castle Drive</td>
</tr>
<tr>
<td>Troy, MI 48098 (home)</td>
</tr>
<tr>
<td>For significant contributions to applications of acoustical theory to noise control; for the development of computational methods to predict sound radiation from finite flexible structures; and for outstanding educational mentorship in noise control and acoustics</td>
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<tr>
<th>EDWIN F. CHURCH MEDAL</th>
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<tbody>
<tr>
<td>Kendra V. Sharp, Ph.D., Member</td>
</tr>
<tr>
<td>Oregon State University</td>
</tr>
<tr>
<td>School of Mechanical, Industrial and Manufacturing Engineering</td>
</tr>
<tr>
<td>204 Rogers Hall</td>
</tr>
<tr>
<td>Corvallis, OR 97331</td>
</tr>
<tr>
<td>For educational leadership in establishing a humanitarian engineering program at Oregon State University; for teaching design in diverse global settings and linking engineering to positive social impact; and for demonstrating a deep commitment to inclusion and diversity in mechanical and other engineering programs, and broadly-accessible design education (during the ASME 2018 Mechanical Engineering Education Leadership Summit, March 14-17, 2018, at the Hotel Karlan) San Diego, California</td>
</tr>
</tbody>
</table>
## DANIEL C. DRUCKER MEDAL

<table>
<thead>
<tr>
<th>David M. Barnett, Ph.D.</th>
<th>For the development of the integral formalism for solving problems in anisotropic elasticity, which has been used to make fundamental breakthroughs in the understanding of defects and interfacial waves in solids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stanford University</td>
<td>Department of Materials &amp; Science Engineering</td>
</tr>
<tr>
<td>Durand Building</td>
<td>496 Lomita Mail, Room 124</td>
</tr>
<tr>
<td>Stanford, CA 94305-4034</td>
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</tbody>
</table>

## WILLIAM T. ENNOR MANUFACTURING TECHNOLOGY AWARD

<table>
<thead>
<tr>
<th>Kevin Smith, Ph.D., P.E., Fellow</th>
<th>For innovations in the field of machining dynamics that have been commercially implemented, leading to significant improvements in machine tool performance and enabling the creation of thin monolithic machined structures in a variety of industries</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of North Carolina at Charlotte</td>
<td>15401 Groveland Street</td>
</tr>
<tr>
<td>Huntsville, NC 28078 (home)</td>
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</tr>
</tbody>
</table>

## NANCY DELOYE FITZROY AND ROLAND V. FITZROY MEDAL

<table>
<thead>
<tr>
<th>Ivar Giaever, Ph.D., Member</th>
<th>For innovative experimental work in superconductor tunneling that led to a major advance in the understanding of the phenomenon of superconductivity and to new scientific instruments</th>
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</thead>
<tbody>
<tr>
<td>Chief Technology Officer</td>
<td></td>
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<tr>
<td>Applied Biophysics</td>
<td></td>
</tr>
<tr>
<td>2080 Van Antwerp Road</td>
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<tr>
<td>Schenectady, NY 12309 (home)</td>
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</tbody>
</table>

## FLUIDS ENGINEERING AWARD

<table>
<thead>
<tr>
<th>Upendra S. Rohatgi, Ph.D., Fellow</th>
<th>For more than four decades of contributions to the engineering profession through leadership in ASME’s Fluids Engineering Division; through teaching; and through the application of fluids engineering principles to wide-ranging areas including aircraft fuel pumps, nuclear reactor design and safety, and passive methods of drag reduction and the cooling of lithium-ion batteries for the automobile industry (ASME 2018 Fluids Engineering Summer Meeting, July 15-20, 2018, at the Le Centre Sheraton Montreal, in Montreal Canada)</th>
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<tbody>
<tr>
<td>Senior Mechanical Engineer</td>
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<tr>
<td>Brookhaven National Laboratory</td>
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<tr>
<td>Department of Nuclear Energy</td>
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<tr>
<td>Building 197D</td>
<td></td>
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<tr>
<td>Upton, NY 11973-5000</td>
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</tbody>
</table>

## Y.C. FUNG YOUNG EARLY CAREER AWARD

<table>
<thead>
<tr>
<th>Spencer P. Lake, Ph.D., Member</th>
<th>For pioneering work in musculoskeletal biomechanics and mechanobiology (during the 2018 8th World Congress of Biomechanics, July 8-12, 2018, at the Dublin Convention Centre, in Dublin, Ireland)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washington University</td>
<td></td>
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<tr>
<td>312 West Manor Drive</td>
<td></td>
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<tr>
<td>Chesterfield, MO 63017</td>
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### KATE GLEASON AWARD

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<thead>
<tr>
<th>Name</th>
<th>University/College</th>
<th>Award Description</th>
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<tbody>
<tr>
<td>Awatef A. Hamed, Ph.D., Fellow</td>
<td>University of Cincinnati</td>
<td>For a lifetime of research contributions in gas turbine engines and air breathing propulsion; and for outstanding leadership in engineering education and industry/university collaboration</td>
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<tr>
<td></td>
<td>College of Engineering and Applied Sciences</td>
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<tr>
<td></td>
<td>Cincinnati, OH 45219</td>
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<tr>
<td>Award</td>
<td>Recipient</td>
<td>Description</td>
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<td>------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>MAYO D. HERSEY AWARD</strong></td>
<td>Andreas Polycarpou, Ph.D., Fellow</td>
<td>Texas A&amp;M University Department of Mechanical Engineering For significant contributions to the understanding of dynamic contacting and sliding rough surfaces, spanning both miniature and conventional systems; and for developing continuum models and experimental techniques that have been widely used by high-tech and conventional industries (2018 Tribology Frontiers Conference (Co-sponsored by STLE and ASME Tribology Division), October 28-31, 2018, at The Drake Hotel, in Chicago, Illinois)</td>
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<tr>
<td></td>
<td></td>
<td>Texas A&amp;M University Department of Mechanical Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3123 TAMU</td>
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<tr>
<td></td>
<td></td>
<td>College Station, TX 77843</td>
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<td></td>
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<td>For significant contributions to the understanding of dynamic contacting and sliding rough surfaces, spanning both miniature and conventional systems; and for developing continuum models and experimental techniques that have been widely used by high-tech and conventional industries (2018 Tribology Frontiers Conference (Co-sponsored by STLE and ASME Tribology Division), October 28-31, 2018, at The Drake Hotel, in Chicago, Illinois)</td>
</tr>
<tr>
<td><strong>PATRICK J. HIGGINS MEDAL</strong></td>
<td>Julius Ballanco, P.E., Member</td>
<td>President JB Engineering and Code Consulting, P.C. 1661 Cardinal Drive Munster, IN 46321 For outstanding leadership, extraordinary perseverance and enthusiastic participation on numerous water committees, which led to the enhancement of industry standardization, research and the advancement of safe and efficient practices in the field of plumbing engineering (2018 ASME A112 Standards Committee Meeting, February 1, 2018 Austin, Texas)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JB Engineering and Code Consulting, P.C. 1661 Cardinal Drive Munster, IN 46321</td>
</tr>
<tr>
<td><strong>SOICHIRO HONDA MEDAL</strong></td>
<td>Ashwani K. Gupta, Ph.D., Fellow</td>
<td>University of Maryland Department of Mechanical Engineering For innovative contributions to the fundamental understanding of cycle-by-cycle variation, heat release rate determination and regenerative operation of internal combustion engines, which have helped to develop smoother operation at increased efficiency and performance; and for sustained educational efforts that have produced a talented workforce</td>
</tr>
<tr>
<td></td>
<td></td>
<td>University of Maryland Department of Mechanical Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2181 Martin Hall</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Campus Drive</td>
</tr>
<tr>
<td></td>
<td></td>
<td>College Park, MD 20742</td>
</tr>
<tr>
<td><strong>INTERNAL COMBUSTION ENGINE AWARD</strong></td>
<td>Dennis L. Siebers, Ph.D., Fellow</td>
<td>Sandia National Laboratories (Retired) 1837 Valley of the Moon Road Livermore, CA 94550 (home) For foundational technical achievements in diesel sprays and combustion; for the development of collaborative groups that provide a direct link between researchers and industry; and for visionary efforts in defining joint U.S. Department of Energy/industry research roadmaps and subsequently leading engine research programs (Internal Combustion Engine Fall 2018 Technical Conference, November 4-7, 2018 at the Hilton San Diego Resort &amp; Spa, San Diego, California)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sandia National Laboratories (Retired) 1837 Valley of the Moon Road Livermore, CA 94550 (home)</td>
</tr>
<tr>
<td>WARNER T. KOITER MEDAL</td>
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<td>------------------------</td>
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</tbody>
</table>
| **Muhammed Taher A. Saif, Ph.D., Fellow**  
University of Illinois-Urbana Champaign  
Department of Science and Engineering  
1206 W Green Street  
Urbana, IL 61801-2906 | For employing principles of mechanics to explore  
phenomena at small scale that provided the first  
evidence of plastic strain recovery in nanograin  
metals and of neuronal tension and its influence  
on neurotransmission; and for outstanding  
leadership in promoting mechanics research in  
frontier areas |

<table>
<thead>
<tr>
<th>ROBERT E. KOSKI MEDAL</th>
</tr>
</thead>
</table>
| **Gian Luca Zarotti, Ph.D.**  
Research Associate  
C.N.R. – IMAMOTER  
Via Canal Bianco  
28 – 44124 Ferrara  
Italy | For outstanding research in the field of fluid power  
components and systems; for exceptional  
leadership while director of the Institute for  
Agricultural and Earthmoving Machines of Italy's  
National Research Council; and for educational  
contributions as an author and as the founder of  
fluid power system courses at a number of  
universities in Italy (2018 ASME/BATH  
Symposium on Fluid Power and Motion  
Control (FPMC) September 12-14, 2018, at the  
University of Bath  
Bath, United Kingdom) |

<table>
<thead>
<tr>
<th>FRANK KREITH ENERGY AWARD</th>
</tr>
</thead>
</table>
| **William M. Worek, Ph.D., Fellow**  
Executive Director  
Eagle Ford Center for Research  
Education and Outreach  
700 University Boulevard  
Mail Stop 188  
Kingsville, TX 78363 | For seminal contributions to second law and  
exergy analyses; and for leaving a lasting legacy  
through service as director of the Energy  
Resources Center at the University of Illinois at  
Chicago |

<table>
<thead>
<tr>
<th>BERNARD F. LANGER NUCLEAR CODES AND STANDARDS AWARD</th>
</tr>
</thead>
</table>
| **Ralph S. Hill III, Member**  
Hill Engineering Solutions  
9030Firebird Drive  
Las Vegas, NV  89134-8503 (home) | For dedicated service and countless contributions  
to ASME Nuclear Codes and Standards for more  
than 40 years, particularly outstanding leadership  
in the advancement of the Boiler and Pressure  
Vessel Code Section III and the Board on Nuclear  
Codes and Standards (Board on Nuclear Codes  
and Standards Meeting, June 13-14, 2018,  
Denver, Colorado) |
### WILFRED C. LAROCHELLE CONFORMITY ASSESSMENT AWARD

<table>
<thead>
<tr>
<th>Robert V. Wielgoszinski, Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principal Code Consultant</td>
</tr>
<tr>
<td>The Hartford Steam Boiler Inspection and Insurance Company</td>
</tr>
<tr>
<td>One State Street</td>
</tr>
<tr>
<td>P.O. Box 5024</td>
</tr>
<tr>
<td>Hartford, CT 06102</td>
</tr>
</tbody>
</table>

For career efforts that support The Hartford Steam Boiler Inspection and Insurance Company and its clients on all aspects of ASME conformity assessment; for 25 years of contributions to ASME on conformity assessment including chairing the Standards Committee on Qualifications for Authorized Inspection and Subcommittee on Accreditation, and serving on the Committee on Boiler and Pressure Vessel Conformity Assessment; and for more than 20 years of service on several committees of The National Board of Boiler and Pressure Vessel Inspectors including chairing the National Board Inspection Code Main Committee (May 9, 2018 during ASME Boiler Code Week, May 6-11, 2018, Dallas, Texas)

### GUSTUS L. LARSON MEMORIAL AWARD

<table>
<thead>
<tr>
<th>Kripa K. Varanasi, Ph.D., Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Massachusetts Institute of Technology</td>
</tr>
<tr>
<td>Department of Mechanical Engineering</td>
</tr>
<tr>
<td>77 Massachusetts Avenue</td>
</tr>
<tr>
<td>Room 35-209</td>
</tr>
<tr>
<td>Cambridge, MA 02139</td>
</tr>
</tbody>
</table>

For outstanding achievements in mechanical engineering within 10 to 20 years following graduation

### H.R. LISSNER MEDAL

<table>
<thead>
<tr>
<th>Louis J. Soslowsky, Ph.D., Fellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Pennsylvania</td>
</tr>
<tr>
<td>221 Wynne Lane</td>
</tr>
<tr>
<td>Penn Valley, 19072</td>
</tr>
</tbody>
</table>

For outstanding contributions toward the understanding, prevention and treatment of musculoskeletal injuries to tendinous and ligamentous tissues; and for internationally recognized leadership in the biomechanics community (during the 2018 8th World Congress of Biomechanics, July 8-12, 2018, at the Dublin Convention Centre, Dublin, Ireland)

### MACHINE DESIGN AWARD

<table>
<thead>
<tr>
<th>John J. Uicker Jr., Ph.D., P.E., Fellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Wisconsin</td>
</tr>
<tr>
<td>Mechanical Engineering Department</td>
</tr>
<tr>
<td>1513 University Avenue</td>
</tr>
<tr>
<td>Madison, WI 53706-1539</td>
</tr>
</tbody>
</table>

For outstanding contributions to machine design and kinematic research on spatial linkages and robotics; for a landmark textbook on mechanism and machine theory; and for distinguished service to the machine design community (ASME 2018 International Design and Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE) August 26-29, 2018, at the Quebec City Convention Center, Quebec City, Canada)
### CHARLES T. MAIN STUDENT LEADERSHIP AWARD

**GOLD**

<table>
<thead>
<tr>
<th>Brandon Graham, Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rowan University</td>
</tr>
<tr>
<td>8 Swackhamer Road</td>
</tr>
<tr>
<td>Whitehouse Station, NJ 08889 <em>(home)</em></td>
</tr>
</tbody>
</table>

For outstanding service as chair of the ASME Student Section at Rowan University, particularly tireless efforts that have benefited fellow students and the community; and for leadership efforts within the ASME Philadelphia Section as well as contributions at the regional and national level

**SILVER**

<table>
<thead>
<tr>
<th>Joseph Pechstein, Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milwaukee School of Engineering</td>
</tr>
<tr>
<td>1910 Highway NN West</td>
</tr>
<tr>
<td>Bend, WI 53095 <em>(home)</em></td>
</tr>
</tbody>
</table>

For two years of outstanding service as president of the ASME Student Section at the Milwaukee School of Engineering, particularly efforts to provide members with opportunities for community service, growth in the profession, and the development of technical and leadership skills

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

<table>
<thead>
<tr>
<th>Kamlakar Rajurkar, Ph.D., Fellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Nebraska</td>
</tr>
<tr>
<td>W303 Nebraska Hall</td>
</tr>
<tr>
<td>City Campus</td>
</tr>
<tr>
<td>Lincoln, NE 68588-0002</td>
</tr>
</tbody>
</table>

For pioneering contributions to enhance the productivity of nontraditional machining processes used in automobile, aerospace and medical device manufacturing, including electrical discharge machining and electrochemical machining at macro, micro and nanoscales, through extensive research in process modeling and in sensing and control techniques

### VAN C. MOW MEDAL

<table>
<thead>
<tr>
<th>Jeffrey W. Holmes, Ph.D., Fellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Virginia</td>
</tr>
<tr>
<td>Biomedical Engineering Department</td>
</tr>
<tr>
<td>Box 800759 – Health System</td>
</tr>
<tr>
<td>Charlottesville, Virginia 22908</td>
</tr>
</tbody>
</table>

For advancing the understanding of the biomechanics of the normal and diseased heart, particularly the origins and functional significance of structural and mechanical anisotropy in healing myocardial infarcts *(during the 2018 8th World Congress of Biomechanics, July 8-12, 2018, at the Dublin Convention Centre, Dublin, Ireland)*

### NADAI MEDAL

<table>
<thead>
<tr>
<th>George M. Pharr, Ph.D., P.E.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Texas A&amp;M University</td>
</tr>
<tr>
<td>Department of Materials Science and Engineering</td>
</tr>
<tr>
<td>207 Reed McDonald Building</td>
</tr>
<tr>
<td>575 Ross Street</td>
</tr>
<tr>
<td>College Station, TX 77843</td>
</tr>
</tbody>
</table>

For the development of nanoindentation, and for fundamental contributions to the field of contact mechanics
### SIA NEMAT-NASSER EARLY CAREER AWARD

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/University/Department/Institute</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tak-Sing Wong, Ph.D., Member</td>
<td>The Pennsylvania State University</td>
<td>For significant and pioneering experimental and theoretical contributions in interfacial phenomena, particularly for those related to the mechanics of fluid-solid interface, and the development of novel biologically inspired materials for applications in liquid-repellent coatings, anti-fouling surfaces and ultra-sensitive molecular sensors.</td>
</tr>
<tr>
<td>Yihui Zhang, Ph.D., Member</td>
<td>Tsinghua University</td>
<td>For pioneering work on the mechanically-guided 3-D assembly through controlled buckling, bio-inspired designs of soft network materials and mechanics-inspired fractal designs for stretchable electronics.</td>
</tr>
</tbody>
</table>

### RUFUS OLDENBURGER MEDAL

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/University/Department/Institute</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roberto Horowitz, Ph.D., Fellow</td>
<td>University of California-Berkeley</td>
<td>For pioneering and impactful contributions to control applications in mechatronics, magnetic data storage and traffic systems (ASME 2018 Dynamic Systems and Control Conference (DSCC), September 30-October 3, 2018, at the Hyatt Regency, Atlanta, Georgia).</td>
</tr>
</tbody>
</table>

### OLD GUARD EARLY CAREER AWARD

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/University/Department/Institute</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael P. Brundage, Member</td>
<td>4800 Auburn Avenue</td>
<td>For service to ASME and the manufacturing community through the application of machine learning and data analytics to improve the performance of manufacturing systems; and for raising the profile and impact of ASME as vice chair of the ASME Manufacturing Engineering Division’s Manufacturing Systems Technical Committee.</td>
</tr>
</tbody>
</table>

### Runner-Up

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/University/Department/Institute</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bodhayan Dev, Member</td>
<td>175 Ames Street #4307</td>
<td>For outstanding contributions as communications chair for ASME’s Hudson-Mohawk Section; for academic achievements including earning a Ph.D. in mechanical engineering; and for applied research that has resulted in 20 U.S. patent applications and the publication of several peer-reviewed journal articles.</td>
</tr>
<tr>
<td>Daniel Preston, Member</td>
<td>1530 W. Tremont Street</td>
<td>For significant contributions to research on wetting and condensation heat transfer on engineered materials; for mentorship and teaching of undergraduate and graduate students; and for demonstrated commitment to engineering service including active involvement in ASME.</td>
</tr>
</tbody>
</table>
### PERFORMANCE TEST CODES MEDAL

<table>
<thead>
<tr>
<th>Michael P. McHale, Member</th>
<th>For outstanding leadership in performance test codes, particularly testing programs of steam turbines in combined cycles and overall plant performance; and for contributions to the PTC Standards Committee and several standards for the measurement of fluid flow in closed conduits (2018 PTC Standards Committee meeting, June 28, 2018 in conjunction with the ASME power and energy conference, Orlando Florida)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice President</td>
<td>McHale &amp; Associates Inc.</td>
</tr>
<tr>
<td>P.O. Box 67</td>
<td>Redmond, WA 98073-0067</td>
</tr>
</tbody>
</table>

### PI TAU SIGMA GOLD MEDAL

<table>
<thead>
<tr>
<th>Nenad Mijkovic, Ph.D., Member</th>
<th>For outstanding achievements in mechanical engineering within 10 years of graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Illinois At Urbana-Champaign</td>
<td></td>
</tr>
<tr>
<td>Mechanical and Science Engineering Department</td>
<td></td>
</tr>
<tr>
<td>105 South Mathews Avenue</td>
<td>Urbana, IL 61801</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mordechai Perl, Sc.D., P.E.</th>
<th>For enhancing the state of the art of high pressure vessels through expertise in the field of large caliber gun barrels; for work in fracture mechanics, particularly with swage autofrettage, that is considered the international benchmark; and for exemplary editorial service on ASME’s Journal of Pressure Vessel Technology (during the 2018 ASME Pressure Vessels &amp; Piping Conference, July 15-20, 2018 Prague, Czech Republic)</th>
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<tbody>
<tr>
<td>Deptment of Mechanical Engineering</td>
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<tr>
<td>Ben-Gurion University of the Negev</td>
<td></td>
</tr>
<tr>
<td>Beer-Sheva 84105</td>
<td>Israel</td>
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</tbody>
</table>

### CHARLES RUSS RICHARDS MEMORIAL AWARD

<table>
<thead>
<tr>
<th>Kon-Well Wang, Ph.D., Fellow</th>
<th>For outstanding achievements in mechanical engineering for 20 years or more following graduation</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Michigan</td>
<td>Department of Mechanical Engineering</td>
</tr>
<tr>
<td>2370D G.G. Brown Building</td>
<td>2350 Hayward Street</td>
</tr>
<tr>
<td>Ann Arbor, MI 48109-2125</td>
<td></td>
</tr>
</tbody>
</table>

### RALPH COATS ROE MEDAL

<table>
<thead>
<tr>
<th>Gwynne E. Shottwell</th>
<th>For outstanding leadership in innovation for space commercialization and colonization; for technical contributions to the design of reusable rockets; and for dedication to the promotion of STEM education</th>
</tr>
</thead>
<tbody>
<tr>
<td>President and Chief Operating Officer</td>
<td>SpaceX</td>
</tr>
<tr>
<td>1 Rocket Road</td>
<td>Hawthorne, CA 90250</td>
</tr>
</tbody>
</table>
### ROBERT M. NEREM EDUCATION AND MENTORSHIP MEDAL

| Roger Kamm, Ph.D., Fellow | For exemplary contributions as an educator and mentor in mechanical engineering including within ASME’s Bioengineering Division; for spearheading educational initiatives at the Massachusetts Institute of Technology and beyond; for strong leadership in creating a biomechanics consortium; and for training numerous researchers who now have successful academic and industrial careers of their own (during the 2018 8th World Congress of Biomechanics, July 8-12, 2018, at the Dublin Convention Centre Dublin, Ireland) |
| Massachusetts Institute of Technology | |
| 21 Otis Street #101 Cambridge, MA 02141 (home) | |

### SAFETY CODES AND STANDARDS MEDAL

| James E. Richardson, Member | For more than two decades of excellence in the development process for B30 Safety Standards for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks and Slings including service as chair of B30.13–Storage/Retrieval Machines and Associated Equipment and B30.24–Container Cranes; and as a member of B30.4–Portal and Pedestal Cranes and B30.8–Floating Cranes and Derricks (2018 B30 Committee meeting, September 18-19, 2018, Phoenix, Arizona) |
| Weight Handling Engineering Specialist | |
| Navy Crane Center | |
| Naval Facilities Engineering Command | |
| 4757 Fredonia Place Bensalem, PA 19020 (home) | |

### R. TOM SAWYER AWARD

| Aspi R. Wadia, Ph.D., Fellow | For seminal contributions to gas turbine technology, particularly pioneering research in transonic compressor blade design and leadership in the application of 3-D computational fluid dynamics in the design and development of high-performance turbomachinery components (during the 2018 ASME TurboExpo, Turbomachinery Technical Conference & Exposition, June 11-18, 2018, Norway Exhibition and Convention Centre, Oslo, Norway) |
| Chief Consulting Engineer - Aerodynamics | |
| General Electric Aviation | |
| 10003 Morganstrace Drive Loveland, OH 45140-8924 (home) | |

### MILTON C. SHAW MANUFACTURING RESEARCH MEDAL

| Ming C. Leu, Ph.D., Fellow | For significant fundamental contributions to the science, engineering and technology of additive manufacturing, including the invention and understanding of rapid freeze prototyping, freeze-form extrusion fabrication and ceramic on-demand extrusion processes; and the optimization and innovative applications of these and other additive manufacturing processes (ASME International Manufacturing Science and Engineering Conference, (MSEC2018) June 18-22, 2018, at the Texas A&M University, College Station,TX) |
| Missouri University of Science and Technology | |
| Department of Mechanical and Aerospace Engineering | |
| 321 Engineering Research Laboratory 500 W. 16th Street Rolla, MO 65409 | |
**BEN C. SPARKS MEDAL**

<table>
<thead>
<tr>
<th>David R. Wallace, Ph.D.</th>
<th>For outstanding contributions that have transformed the way undergraduates across disciplines and cultures think about and practice mechanical engineering design through authentic, human-centered engineering experiences; and for inspiring the general public to embrace their own creativity and engineering spirit <em>(during the ASME 2018 Mechanical Engineering Education Leadership Summit, March 14-17, 2018, at the Hotel Karlan, San Diego, California)</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Massachusetts Institute of Technology</td>
<td></td>
</tr>
<tr>
<td>3 Pine Knoll Road</td>
<td></td>
</tr>
<tr>
<td>Lexington, MA 02420 <em>(home)</em></td>
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</tr>
</tbody>
</table>

**RUTH AND JOEL SPIRA OUTSTANDING DESIGN EDUCATOR AWARD**

<table>
<thead>
<tr>
<th>Alexander H. Slocum, Ph.D., Fellow</th>
<th>For exemplary contributions to design education that have had a transformative impact across all professional levels, from industry engineers, postdoctorates and faculty colleagues to undergraduate and graduate university students and school children; for creating a landmark legacy in machine design through hundreds of papers, inventions and products; and for educating a generation of design engineers through a world-renowned design philosophy, well-received books and innovative teaching <em>(ASME 2018 International Design and Engineering Technical Conferences &amp; Computers and Information in Engineering Conference (IDETC/CIE) August 26-29, 2018, at the Quebec City Convention Center, Quebec City, Canada)</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Massachusetts Institute of Technology</td>
<td></td>
</tr>
<tr>
<td>Mechanical Engineering Department</td>
<td></td>
</tr>
<tr>
<td>77 Mass Avenue, Room 3-445</td>
<td></td>
</tr>
<tr>
<td>Cambridge, MA 02139-4301</td>
<td></td>
</tr>
</tbody>
</table>

**SPIRIT OF ST. LOUIS MEDAL**

<table>
<thead>
<tr>
<th>Stephen P. Engelstad, Ph.D., Fellow</th>
<th>For outstanding contributions as an aerospace industry leader in research and development and U.S. Department of Defense applications of new computational mechanics and composites structural/certification technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lockheed Aeronautical Company</td>
<td></td>
</tr>
<tr>
<td>86 South Cobb Drive</td>
<td></td>
</tr>
<tr>
<td>Marietta, GA 30063-0001</td>
<td></td>
</tr>
</tbody>
</table>

**J. HALL TAYLOR MEDAL**

<table>
<thead>
<tr>
<th>Daniel T. Peters, P.E., Fellow</th>
<th>For outstanding contributions to the development and promotion of ASME codes and standards for pressure equipment; and for efforts to enhance public safety and component reliability through dedicated service on the Society's pressure vessel and piping committees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Integrity Associates</td>
<td></td>
</tr>
<tr>
<td>16339 Irish Road</td>
<td></td>
</tr>
<tr>
<td>Edinboro, PA 16412-4539</td>
<td></td>
</tr>
<tr>
<td>ROBERT HENRY THURSTON LECTURE AWARD</td>
<td>For pioneering contributions to mechanics of materials, particularly dynamic deformation, damage and failure, micro/nano mechanics, wave propagation, composites, active materials, cell mechanics and experimental methods</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Guruswami Ravichandran, Ph.D., Fellow</td>
<td>California Institute of Technology Aerospace and Mechanical Department Mail Code 105-50 Pasadena, CA 91125</td>
</tr>
<tr>
<td>TIMOSHENKO MEDAL</td>
<td>For pioneering contributions to the mechanics of dynamic failure of geological materials and systems, earthquake source physics and seismic hazards mitigation</td>
</tr>
<tr>
<td>Ares J. Rosakis, Ph.D., Fellow</td>
<td>California Institute of Technology Division of Aeronautics &amp; Applied Mechanics 1200 East California Boulevard MS 105-50 Pasadena, CA 91125</td>
</tr>
<tr>
<td>YERAM S. TOULOUKIAN AWARD</td>
<td>For internationally recognized leadership in developing optical methods, particularly advanced dynamic light scattering, that have been adopted by laboratories worldwide as reliable tools for measuring a large variety of thermophysical properties (during the Twentieth Symposium On Thermophysical Properties Boulder, Colorado, June 24–29, 2018)</td>
</tr>
<tr>
<td>Dr.-Ing. Dr. h.c. Alfred Leipertz</td>
<td>Friedrich-Alexander-Universitat Schleifmuhle 5 91054 Erlangen Germany (home)</td>
</tr>
<tr>
<td>Professor J. Ilja Siepmann</td>
<td>University of Minnesota Department of Chemistry 207 Pleasant Street, S.E. Minneapolis, MN 55455</td>
</tr>
<tr>
<td>GEORGE WESTINGHOUSE GOLD MEDAL</td>
<td>For outstanding contributions to the development of clean power generation systems</td>
</tr>
<tr>
<td>Timothy C. Lieuwen, Ph.D., Fellow</td>
<td>Executive Director of the Strategic Energy Institute Georgia Institute of Technology 270 Ferst Street Atlanta, GA 30332-0150</td>
</tr>
<tr>
<td>SAVIO L-Y. WOO TRANSLATIONAL BIOMECHANICS MEDAL</td>
<td>For inventing intraosseous infusion to deliver life-saving drugs, developing corresponding patented technologies, and translating those technologies to clinical use worldwide (during the 2018 8th World Congress of Biomechanics, July 8-12, 2018, at the Dublin Convention Centre, in Dublin, Ireland)</td>
</tr>
<tr>
<td>Kyriacos A. Athanasiou, Ph.D., P.E., Fellow University of California, Davis 20 Whistler Court Irvine, CA 92617 (home)</td>
<td></td>
</tr>
</tbody>
</table>
### HENRY R. WORTHINGTON MEDAL

Jaikrishnan R. Kadambi, Ph.D., Fellow  
Case Western Reserve University  
4767 Hillary Lane  
Richmond Heights, OH 44143 (home)

For extensive educational and research contributions to the design and development of reliable and efficient pumping technologies over the last 20 years, particularly slurry pumps for the fossil fuel and mining industry; and blood compatible pumps as temporary substitutes for the human heart with relatively less shear stresses inflicted on the blood until a donor heart is obtained, as well as bladeless blood pumps for use during heart surgery.

### LITERATURE AWARDS

#### BLACKALL MACHINE TOOL & GAGE AWARD

Sripati Sah, Ph.D., Fellow  
Persimmon Technologies Corporation  
145 Village Street  
Reading, MA 01867 (home)

Numpon Mahayotsanun  
Khon Kaen University  
Department of Mechanical Engineering  
Khon Kaen 40002  
Thailand

Michael Peshkin, Ph.D., Member  
Northwestern University  
Department of Mechanical Engineering  
2145 Sheridan Road, B288  
Evanston, IL 60208

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

Robert X. Gao, Ph.D., Fellow  
Case Western Reserve University  
Department of Mechanical and Aerospace Engineering  
Glannan Engineering Building  
10900 Euclid Avenue  
Cleveland, OH 44106-7222

For the paper titled “Pressure and Draw-In Maps for Stamping Process Monitoring” (MSEC Manufacturing Science and Engineering Conference (MSEC2018) June18-22, 2018, at the at the University of Southern California, in Los Angeles, California)

### FREEMAN SCHOLAR AWARD

Ramesh K. Agarwal, Ph.D., Fellow  
Washington University in St. Louis  
1 Clayton Terrace  
Saint Louis, MO 63131 (home)

For the paper titled “Fluid Mechanics of Geological Sequestration of Carbon Dioxide” (during the ASME 2018 Fluids Engineering Summer Meeting, July 15-20, 2018, at the Le Centre Sheraton Montreal, in Montreal Canada)
### GAS TURBINE AWARD

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Address</th>
<th>Award Description</th>
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<tbody>
<tr>
<td>Svilen S. Savov, Ph.D.</td>
<td>Consultant</td>
<td>TTP PIC Melbourn Science Park Melbourn SG 86EE United Kingdom</td>
<td>For the paper titled “Comparison of Single and Double Lip Rim Seal Geometry” <em>(during the 2018 ASME TurboExpo, Turbomachinery Technical Conference &amp; Exposition, June 11-18, 2018, Norway Exhibition and Convention Centre, Lillestrøm, Norway)</em></td>
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<tr>
<td>Nicholas Atkins, Ph.D.</td>
<td>University of Cambridge Whittle Laboratory 1 JJ Thompson Avenue Cambridge CB3 0DY United Kingdom</td>
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<tr>
<td>Sumiu Uchida, Member</td>
<td>Deputy Head of Research &amp; Innovation Center Mitsubishi Heavy Industries Co. Ltd. 2-1-1 Shinhama, Arai-cho Takasago, Hyogo 676-8686 Japan</td>
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### HENRY HESS EARLY CAREER PUBLICATION AWARD

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<th>Name</th>
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<th>Award Description</th>
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<tbody>
<tr>
<td>Mary H. Foltz</td>
<td>University of Minnesota Department of Rehabilitation Medicine MMC 388 Mayo 420 Delaware Street S.E. Minneapolis, MN 55455</td>
<td></td>
<td>For the paper titled “Noninvasive Assessment of Biochemical and Mechanical Properties of Lumbar Discs Through Quantitative Magnetic Resonance Imaging in Asymptomatic Volunteers”</td>
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<tr>
<td>Craig C. Kage</td>
<td>University of Minnesota Department of Rehabilitation Medicine MMC 388 Mayo 420 Delaware Street S.E. Minneapolis, MN 55455</td>
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<tr>
<td>Casey P. Johnson</td>
<td>University of Minnesota 3232 New Brighton Road Arden Hills, MN 55112</td>
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<tr>
<td>Arin M. Ellingson, Ph.D. Member</td>
<td>University of Minnesota Department of Rehabilitation Medicine 420 Delaware Street S.E. MMC 388 Mayo Minneapolis, MN 55455</td>
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## EDWARD F. OBERT AWARD

| Andrea Toffolo, Ph.D., P.E. | Luleå University of Technology  
Division of Energy Science  
Department of Engineering Sciences  
and Mathematics  
Luleå, Sweden |
| Andrea Lazzaretto, Ph.D., Fellow  
University of Padova  
Department of Industrial Engineering  
Padova, Italy |
| Sergio Rech, Ph.D.  
University of Padova  
Department of Industrial Engineering  
Interdepartmental Center for Energy  
Economics and Technology  
Padova, Italy |

For the paper titled "Combination of Elementary Processes to form a General Energy System Configuration"

## WORCESTER REED WARNER MEDAL

| Martin Ostoja-Starzewski, Ph.D., Fellow  
University of Illinois at Urbana-Champaign  
Department of Mechanical Science and Engineering  
1206 Green West Street  
Urbana, IL 61801-2906 |

For the book titled “Microstructural Randomness and Scaling in Mechanics of Materials,” which serves as a teaching aid as well as a source of primary research and original scholarship

## ARTHUR L. WILLISTON MEDAL

| Noah M. Purdy, Member  
Mechanical Design Engineer  
Delta Systems Inc.  
16446 Galehouse Road  
Doylestown, OH 44230 (home) |

For the paper titled “Additive Manufacturing with In Situ Resource Utilization on Extra-Terrestrial Bodies"