ITEM

41. Call to Order
42. Adoption of Agenda
43. Announcements
44. Report on Closed Session
45. Discussion Items
46. Items for Receipt
47. Items for Action
48. Dates of Future Meetings
49. Contingency Time
50. Adjournment
LIST OF APPENDICES

I Standards and Certification Strategic Plan

II BOG Task Force on Technical Events and Content Communications and Execution

III Sector Management Committee Report

IV CY14 Fellows Listing

V Approved Society Award Listing

VI Proposed New Society Award

VII By-Law B5.2.5.2 for First Reading

VIII By-Laws B4.1, B4.2, B4.3, B5.1, B5.2, B5.3, B5.7, B5.8, B6.1, and B7.1 for Second Reading
41. **Call to Order:**

On June 7, 2015, a meeting of the Board of Governors of the American Society of Mechanical Engineers was held in Jacksonville, FL. A quorum being present, the meeting was called to order by the President at 2:05 PM Eastern Time. Attendance was as follows:

**Board of Governors**
- President: J. Robert Sims
- Immediate Past President: Madiha Kotb
- President-Elect: Julio C. Guerrero

**Other Officers**
- Senior Vice Presidents: Robert E. Grimes, Technical Events and Content; Laura E. Hitchcock, Standards and Certification; Cynthia M. Stong, Student & Early Career Development; William J. Wepfer, Public Affairs and Outreach
- Vice Presidents: Kalan Guiley, Government Relations; Mohammad H. Hosni, Engineering Education
- Secretary and Treasurer: Warren R. DeVries
- Executive Director: Thomas G. Loughlin
- Deputy Executive Director: June Ling (also Second Assistant Treasurer)
- Assistant Secretary: John Delli Venneri
- Assistant Treasurer: William Garofalo

**Board of Governors Elects**
- Bryan Erler
- Caecilia Gotama
- Sriram Somasundaram

**Board Committee Chairs**
- Amos Holt: Committee of Past Presidents
- James Coaker: Committee on Finance and Investment and Secretary/Treasurer-Elect
Corporate Counsel
John Sare

Other Guests
Harry Armen                  Past President, 2004-2005
Frank Adamek                Foundation Board Member
Jennifer Bell               Engineering Source and Processing Segment
Ruth Berghammer             Hudson Chesapeake LTD
Jennifer Jewers Bowlin      ASME Foundation
Bridget Brown               ECLIPSE Intern
Audrey Bracey-Deegan        Hudson Chesapeake LTD
Lynden Davis                ASME Foundation
Ralph Hill                  Chair, Nuclear C&S
Roy Hogan                   Engineering Science Segment
Sang Muk Kwark              ECLIPSE Intern
Rigoberto Lopez            ASME Petroleum Division
Webb Marner                 Pension Plan Trustee
Manesh Nair                ECLIPSE Intern
Karen Ohland                Group Engagement Transition Team
William Predebon           Vice President-Elect Engineering Education
Simon Pun                  ECLIPSE Intern
Sari Roboff                Managing Director, Hudson Chesapeake LTD
K. Keith Roe               IAB Member
Ashish Sinha               BOG ECLIPSE Intern 2014-2015
Terry Shoup                Past President, 2006-2007
Susan Skemp                Past President, 2002-2003
Paul Stevenson             Incoming SVP, Students and Early Career Development
Keith Thayer               Past President, 1997-1998
Reggie Vachon              Past President, 2003-2004
Timothy Wei                Incoming SVP, Public Affairs and Outreach
Charla Wise                Past BOG
Sara Wheeland              ECLIPSE Intern
Justin Young               VOLT Academy

Staff
Roy Arbeit                 Managing Director, Marketing & Sales
William Berger             Managing Director, Standards
RuthAnn Bigley             Coordinator, Governance
Clare Bruff                Manager, Volunteer Leadership Development
Peter Cestaro              Director, Benefits and Payroll
Michael Cowan              Director, Public Information
Philip DiVetro             Managing Director, Publishing
John Falcioni              Editorial Director, Mechanical Engineering
Nick Ferrari               Director, Editorial
Noha El-Ghobashy           Managing Director, Engineering Workforce
Peter Hess                 Managing Director, Marketing & Online Services
Heidi Hijikata             Director, Global Development S&C
42. **Adoption of the Agenda:** The Board

VOTED: to adopt the agenda as circulated on May 26, 2015.

43. **Announcements:**

The President welcomed all to the meeting and recognized Past Presidents Harry Armen, Richard Goldstein, Amos Holt, Terry Shoup, Susan Skemp, Keith Thayer and Reggie Vachon, and Ashish Sinha as the outgoing ECLIPSE Intern.

44. **Report on Closed Sessions**

President Sims reported on the following Closed Sessions of the Board:

At the May 8, 2015 Closed Session, the Board
- Approved the sale of 22 Law Drive in Fairfield, NJ

At the June 7, 2015 Closed Session, the Board
- Approved the selection of Honorary Members and ASME Medalist
- Received preliminary findings from the Strategy Team
- Was updated on the FY15 Q3 Enterprise Update and Year-End Projections and Year-End Report on Executive Director Performance Goals
- Accepted the Report on the Executive Director’s Performance Evaluation and Compensation Recommendations
- Received an update on the FY15 Volunteer/Staff Collaboration Survey
- Received a report from Corporate Counsel
- Approved a motion by the Audit Committee
- Conducted a dialogue with Roe Lecturer Dr. Freeman Hrabowski, III
45. **Discussion Items:** The Board

VOTED: to move into open session, as if in the Committee of the Whole.

The Board heard reports concerning and discussed the following items:

Sector Management Committee Report by Julio Guerrero and Cynthia Stong (Agenda Appendix 4.1.1 and Minutes Appendix III); Comments By Outgoing Board Members Elter, Hrubala, and Laudenat; Standards and Certification Strategic Plan by Laura Hitchcock, (Agenda Appendix 2.6 and Minutes Appendix I); BOG Task Force On Technical Events and Content Communications and Execution by Stacy Swisher Harnetty (Minutes Appendix II).

Following the close of the Discussion Items, the Board

VOTED: to move into formal session.

46. **Items for Receipt:** The Board

VOTED: to receive the following items: (1) Sector Management Committee Report (Agenda Appendix 4.1.1 and Minutes Appendix III); (2) CY14 Fellows Listing (Agenda Appendix 4.1.2 and Minutes Appendix IV); (3) Approved Society Awards Listing (Agenda Appendix 4.1.3 and Minutes Appendix V); and (4) Standards and Certification Strategic Plan (Agenda Appendix 2.6 and Minutes Appendix I).

47. **Items for Action:** The Board

VOTED: to approve the following items: (1) Minutes from the Meeting on April 17, 2015; (2) Proposed New Society Award (Agenda Appendix 4.2.3.1 and Minutes Appendix VI) (3) By-Law B5.2.5.2 for First Reading (Agenda Appendix 4.2.4.1 and Minutes Appendix VII); (4) By-Laws B4.1, B4.2, B4.3, B5.1, B5.2, B5.3, B5.7, B5.8, B6.1, and B7.1 for Second Reading (Agenda Appendix 4.2.4.2 and Minutes Appendix VIII).
48. **Dates of Future Meetings.** The Board approved meeting dates and times as follows:

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<th>DATE</th>
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<tr>
<td>October 5, 2015 (a)</td>
<td>Monday</td>
<td>2:00 PM – 6:00 PM</td>
<td>Web conference</td>
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<tr>
<td>November 14, 2015 (a)</td>
<td>Saturday</td>
<td>8:30 AM – 4:00 PM</td>
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<tr>
<td>January 20, 2016 (a)</td>
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<td>Thursday</td>
<td>12:00 PM – 2:00 PM</td>
<td>Web conference</td>
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<td>Thursday</td>
<td>8:00 AM – 1:00 PM</td>
<td>New York, NY</td>
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<td>June 5, 2016(a)</td>
<td>Sunday</td>
<td>9:00 AM – 4:00 PM</td>
<td>Louisville, KY</td>
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<tr>
<td>June 8, 2016 (b)</td>
<td>Wednesday</td>
<td>10:00 AM – 3:00 PM</td>
<td>Louisville, KY</td>
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(a) 2014-2015 Board of Governors   (b) 2015-2016 Board of Governors

49. **Contingency Time:**

President Sims recognized Madiha Kotb as Immediate Past President; the three retiring Board members John Elter, Bernard Hrubala, and Richard Laudenat; Secretary/Treasurer Warren DeVries; Senior Vice Presidents Cynthia Stong and William Wepfer; ECLIPSE Intern Ashish Sinha; and Deputy Executive Director June Ling.

50. **Adjournment:** The meeting was adjourned on Sunday, June 7, 2015 at 3:20 PM Eastern Time.

________________________
Warren R. DeVries
Secretary
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 19, 2015
BOG Meeting Date: June 7, 2015

To: Board of Governors
From: (Sector/Unit/Task Force/Other) Council on Standards and Certification
Presented by: Laura Hitchcock
Agenda Title: Standards and Certification Strategic Plan

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

This presentation provides the Board with an update on the Council on Standards and Certification’s continuing development of its strategic plan.

Proposed motion for BOG Action: (if appropriate)

No action requested.

Attachment: S&C End-State Descriptions (for information)
ASME as a Global Standards Organization

25 Years from now...

ASME is a pre-eminent source of technical and globally relevant standards, and conformity assessment programs and related products and services which are recognized, accepted and used around the world.

(so what does that look like…)

- ASME standards are developed with participation from all relevant stakeholder groups from around the world (industry, government, academia, regulatory agencies, etc.)
- ASME maintains effective standards development processes which serve, and are used by, the global engineering community (globalization of the standards setting process)
- ASME produces standards and standards-related products that are readily accepted world-wide as meeting the design and certification needs of products regardless of where they are built (globalization of the standards products)
- ASME provides an organizational structure which is recognized as an unbiased, fair, and non-discriminatory venue and a preferred forum for global standards development and whose participants accurately reflect the global diversity of the industry sectors served
- ASME’s policies, processes and procedures ensure an open, welcoming and neutral environment for all impacted stakeholders to participate in setting globally relevant standards and result in products which are recognized as meeting the definitions of what constitutes "international" according to the leading trade organizations and world governments
- ASME codes and standards are not only used and referenced by industry and regulatory agencies around the world, but ASME is sought out by industry, regulatory agencies and other stakeholders around the world to fill emerging standards needs
- All global stakeholders have a vested interest in the technical relevance and success of the applicable ASME standards and related conformity assessment programs
- ASME standards are produced and funded by a standardization model in which all global stakeholders have the opportunity for direct participation, fully support the process, and are collectively vested in the products.
- ASME protects and promotes ASME codes and standards (to the greatest extent possible) as global products which do not need to migrate to any other organization in
order to be deemed “more” global

- ASME works with industry and other global stakeholders to create single, global standards to the greatest extent possible. Where not possible (i.e., the global stakeholders cannot come to consensus on a single set of technical requirements), ASME seeks alternative ways to satisfy or accommodate local technical or regulatory requirements which are outside of the global consensus.

- ASME considers co-development of standards or migration of ASME IP to another organization only when a compelling business case exists and after all attempts to satisfy that need with an ASME unique solution have been exhausted.

- ASME only submits standards to a national standards body for recognition if the standards being submitted are intended to satisfy only stakeholders in that nation and those stakeholders demand that extra recognition or if submission to a national standards body is absolutely necessary to meet stakeholder needs which can’t be satisfied through an ASME unique solution.

- ASME’s standards setting processes and tools work to eliminate the obstacles of language, culture, distance, regionalism and the historic perception of ASME as solely a US organization.

- ASME provides relevant and engaging training in standards and certification so as to ensure the next generation of technical practitioners around the world have the necessary knowledge and skills to implement ASME standards and certification programs and to participate in the development of ASME standards and certification activities.

- ASME standards facilitate global conformity assessment and certification of products, processes and personnel with Certification programs which are recognized and utilized globally.

- ASME’s intellectual property is respected and protected around the world by industry, governments and other standards and conformity assessment organizations.
The ASME Standards and Certification Products and Services

25 Years from now…

ASME has the broadest possible range of value-added standards and standards related products as well as premier standards and certification services for the global engineering community which are delivered via state-of-the-art means to best meet the needs of the users.

(What does that look like…)

- ASME is a premier solutions provider in the area of standards and conformity assessment programs recognized for facilitating the global creation, maintenance and delivery of current, relevant, technically accurate, and value-added products and services
- ASME is recognized as a premier forum for the identification of standardization needs for emerging technologies and moves swiftly and efficiently to meet those needs with globally relevant, technically superior products
- ASME standards and certification products integrate with and support other product streams from across the Society to create a comprehensive portfolio of value-added engineering knowledge and solutions
- ASME produces standards, standards-related products and conformity assessment programs which consistently meet the evolving ways that standards data are used in every phase of the product life-cycle (design, build, certify, operate, maintain, and dispose)
- ASME standards are maintained and delivered in a format that allows the data to be easily integrated into the design/build/support process, easily used in a collaborative design environment, and easily migrated throughout the supply chain.
- The technical data within ASME standards is easily available to those who need it, when they need it, in the form that they need it and can be easily integrated into product definition data or other life-cycle data streams, applications or tools
- ASME works with industry and other stakeholders to identify and fill the need for enhanced standards or other standards-related products which support standardization and certification and which enhance safety, quality, usability and customer value (these can include but are not limited to smart or interactive standards products, certification, training, conformity assessment, special data sets, standards-related software programs and design aids, guidelines, handbooks, or consulting services).
- ASME standards and standards-related products are delivered via state-of-the-art means which ensure the fastest delivery and timely updates while protecting the
integrity of the data

- ASME standards and conformity assessment products and services are available in formats which eliminate (to the greatest extent possible) language, cultural and geographic challenges to accessing and using ASME products.
ASME Structure, Policies, Processes and Tools

25 Years from now...

The ASME Standards and Certification program, by its structure, processes and tools, enables stakeholders to capture, maintain and disseminate world class, technically relevant standards and certification products which meet global market needs through state-of-the art means

(so what does that look like?...)

- The organizational structure, operating procedures and tools used by staff, volunteers and associated stakeholders support the holistic development of products and services so that activities lead by other sectors of ASME can be leveraged by the Standards and Certification sector and vice versa

- The organizational structure, processes and tools support continuous development and maintenance of an integrated and managed portfolio and schedule of products, services and events.

- ASME standards setting tools (templates, document management software, balloting software, etc.) are easy to use, and promote efficient, effective standards production

- ASME standards setting tools and processes facilitate and enable global engagement and participation such that barriers to participation (geography, language, time-zones, travel) are eliminated and all stakeholders view ASME as a fair, balanced and non-discriminatory environment

- The volunteer structure minimizes non-value added layers and roles and focuses the efforts and engagement of volunteers on the development and implementation of standards and certification products

- The standards and certification programs are funded through revenue generating means which ensure that the programs are not only self supporting but that enough revenue is generated to help contribute to the goals of the Society at large. The funding models supporting the standards and certification programs are responsible in that they ensure healthy programs without unfairly burdening industry, users or the Society itself.

- IP policies protect the welfare of ASME without unduly inhibiting the industry's ability to access and use the data as needed. Tools, processes and training ensure that these policies are globally known, understood, acknowledged and followed.

- Tools and processes used to develop, maintain, manage and disseminate the standards and certification portfolio of products and services make the best use of technology and information exchange capabilities to ensure efficient, effective, configuration-managed tools, databases, etc.

- The methods, processes and tools for engaging with ASME to develop, acquire, or use standards, standards related products, and certification systems is clear, intuitive, easy
to use, and present no undue burden to the user

- ASME uses state-of-the-art tools, media and methods to ensure the next generation of standards users and developers from around the world have the standards awareness, skills and knowledge to ensure ASME standards and certification programs continue to grow in value to society
Presidential Communication & Execution Task Force Update

Stacey Swisher Harnetty
June 7, 2015
Overview

• The TEC Sector continues to make progress, will highlight:
  o Blue Ribbon Panel (BRP)
  o The TEC Council
  o GETT and GPS
  o Next Steps and role of Presidential Communication & Execution Task Force is ready to sunset.
President Blue Ribbon Panel – Charter

- **Purpose**: Provide recommendations for resolving change management issues
- **Appointment**: Panel members are appointed by the Presidential Team
- **Composition**: Three independent “blue ribbon” quality volunteers, to include one Past President of ASME
- **Scope**: The Panel will deal with issues after the item has been passed through GPS and the “business owner.” It will hear dispute and make recommendations. It is not empowered to make a decision.
Three neutral voting advisors, none with current ties to existing group leadership or ASME sector/business unit leadership:

- **Harry Armen** – Past President
- **Ed Seiders** – Past BOG Member; Sr VP – Institutes
- **Ken Balkey** – Past Senior VP, S&C Sector.
Presidential Blue Ribbon Panel – Process

- **Group Requests/Complaints:** All activity requests or complaints are submitted through Group Pathways and Support (GPS), which serves as a customer service tool and is built to track all activity. Requests are passed to the appropriate Sector or functional unit—the “business owner.” If a request is changed or denied, the group will be given the option of appealing to the BRP.

- **BRP Role:** The panel does not have authority to take action, but after consideration of the position of both parties, can make recommendations on a possible resolution or path forward.

- **Implementation:** Implementation of the recommendation lies with the Sector or business unit.
TEC Sector Update

- The new CPEG Operation Guide was distributed to Division and Institute leadership with a cover memo on April 24
- The TEC Training for Division Leaders was held on May 2 in Denver, with very positive results; group buy-in is definitely improving!
  - The May 2 attendance was 70+ people in Denver, with another 40+ people attending virtually via webinar
  - The TEC Sector and 4 Segments presented their respective strategic plans, followed by breakout sessions with the volunteers to engage in 2-way communications on paths forward
  - Q&A sessions at the end of each training module were very productive for sharing information and conveying the intended TEC approach to conferencing and technical content
  - Involved Publications staff to introduce improvements, and Foundation staff to share programs and present funding opportunities.
New CPEG – Conference Planning & Execution Guide

• Developed by a Volunteer Task Force
  ➢ 7-Member Volunteer task force working January through April 2015
  ➢ Carefully reviewed all the feedback received on RECIPE and EPEG
  ➢ Draft document submitted to the TEC Council for approval
  ➢ TEC Council approved CPEG on April 15

• Re-branded as “CPEG”
  ➢ Distinguishes this guide as “new and improved” vs. previous versions

• Collaborative Planning Emphasized
  ➢ Selecting the conference location and venue
  ➢ Developing the conference budget
  ➢ Setting conference registration fees
  ➢ Developing the technical publication plan
  ➢ Authoring the conference final report, including the financial results, and the quality of the technical program

• Assignment of Responsibilities
  ➢ Adjustments to volunteer and staff roles, such as Conference Chair, Technical Program Chair, Program Manager, Events Manager, etc.

• Supplementing Travel/Registration
  ➢ Clarification for supplementing travel expense and/or registration fees for some conference organizers and students, where needed, through the use of segregated funds
Volunteer & Staff – Roles & Responsibilities

Volunteer
Conference Chair
Technical Program Chair
Industrial Program Chair
Research Program Chair
Division/Group Leaders
TEC Segment Leadership Team (SLT)

Core Team

Organizing Committee

Staff
Program Manager/Business Dev. Director
Events Manager
Events Director
Senior Staff/Signing Authority/Legal
Publication Manager
Marketing Manager
Sales Manager
Accounting/Finance

Steering/Advisory Committee
(two or more groups/programs)
# 2014-2015 TEC Sector Leadership

## TEC Sector Council

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<tr>
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<tbody>
<tr>
<td>Bobby Grimes</td>
<td>Council Leader</td>
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<tr>
<td>Amip Shah</td>
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<td>Ken Hall</td>
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<td>Ken Bayne</td>
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<td>George Papadopoulos</td>
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<td>Jared Oehring</td>
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## DMM-SLT

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<td>Amit Bagchi</td>
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<td>Amip Shah</td>
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<td>Venkat Krovi</td>
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<td>Gamal Refai-Ahmed</td>
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<td>Tim Simpson</td>
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## ECS-SLT

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## ESP-SLT

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<td>Julie Chen</td>
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<td>Daniel Kearney</td>
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<td>Arnold Feldman</td>
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<td>Roy Hogan</td>
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New members will be installed for 2015-2016 by July 1.
Developments Since the Reorganization

- Addressed outstanding K&C issues, like Merit-Based Funding
- Conducted several face-to-face & webinar-based training events
- Established GPS (Group Pathways & Support - staff); reached out to all four Sectors to create GETT (Group Engagement & Transition Team – volunteers)
- Commenced implementing rules of engagement
- Initiated discussion of new pathways of engagement with Sectors
- Worked with staff on processes and tools
- Processed over 700 Group activity requests since September 2014
- Launched new web-based GPS Requisition Tool in March 2015
- Incorporated all requests from “interim” activity tool into new tool
- Arranged and completed initial training webinars in advance of launch
- Completed and updated Group Operating Guide (by SMC)
- Implemented Group Annual Plan Template.
Web-based GPS Requisition Tool

Groups can use the tool to perform various tasks.
GPS Requisition Tool

• Requests must be submitted through the tool to:
  – Log the entire series of communications regarding a request
  – Enable everyone to see and use data from associated files
  – Facilitate greater communication among Group volunteers and staff
  – Provide greater transparency and continuity

• Significantly improved response times
  – Most will get notification of receipt within 24 hours
  – Many will be approved almost immediately as they fall within established “pre-approved” rules of engagement.
  – Some requests will take longer as business owners will need time to convene and consider.
Next Steps

• TEC to orient new leaders, and continue implementation of Sector and Segment conferencing strategies
• GETT/GPS to train and communicate with groups, establish rules and pathways of engagement with SMC
• BRP to handle issues. BoG should forward all requests and complaints through GPS
• What’s left for this Board-appointed task force?
Communication & Execution Task Force

- Crafted and completed Communications Plan
- Handled additional group & individual communications
- Reviewed & participated in Group training sessions
- Attended TEC and GPS/GETT business meetings

Final recommendations:

- This Task Force should now be sunset
- BRP, SMC & GPS can handle ongoing issues
- Recommend review of BRP this time next year
- Recommend similar Task Force be established to handle ASME strategy implementation, once it is ready to be deployed.
Date Submitted: May 18, 2015  
BOG Meeting Date: June 6, 2015  
To: Board of Governors  
From: Sector Management Committee

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

The report updates the BOG on Sector, GPS(GETT) and VOLT related activities and is for information only.

Proposed motion for BOG Action: *(if appropriate)*

No Action

Attachments:

One
I. Sector Highlights

Standards & Certification – Laura Hitchcock, Bill Berger

Quarterly Highlights

• The Council on Standards and Certification (CSC) will be meeting on Tuesday, June 9, 2015, in conjunction with the ASME Annual Meeting in Jacksonville.

• The Senior VP, S&C and senior S&C staff continue development of an updated S&C Strategic Plan, as a result of a request from the ASME President. Subsequent to BoG endorsement of S&C’s proposed approach for development of the Strategic Plan in January, an initial draft of end-state descriptions of elements of S&C 25 years from now was distributed to members of CSC for their input. The comments submitted during this review have been reviewed by the Senior VP and staff, and revisions will be made to the initial draft. It is expected that the S&C-approved draft of end-state descriptions will be presented to BoG for its endorsement at the June 7 BoG meeting. If supported by BoG, CSC will proceed with development of the strategies and tactics to support the end-state descriptions, beginning with a brainstorming session at the June 9 meeting of CSC.

• BoG has taken action to approve Bylaw revisions that eliminates the title of Vice President in S&C, to be replaced by the title of Board Chair. Work has begun on revising numerous procedural and policy documents, as well as web site references, to implement this Bylaw revision.

• S&C has been working with the U.S. Nuclear Regulatory Commission and with the Dept. of Transportation’s Pipeline and Hazardous Materials Safety Administration to assist them in meeting revised Office of Federal Register rules that require federal agencies to discuss how standards they intend to incorporate by reference are being made reasonably available.

Upcoming Activities/What’s on the Horizon?

• As part of the continuing development of the S&C Strategic Plan, it is expected that the S&C-approved draft of end-state descriptions of S&C elements 25 years from now will be presented to BoG for its endorsement at the June 7 BoG meeting.
Technical Events and Content (TEC) Bobby Grimes, Michael Ireland

**ECS (Energy Conversion & Storage) Segment**

**Quarterly Highlights**

- The ESC-SLT held their most recent regular planning meeting on April 10th in Pittsburgh.

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

- Turbo Expo 2015 will be held June 14-19 at the Palais des Congrès de Montréal, with 2,700+ attendees, 1,053+ papers presented, and 120+ exhibitors. Seven workshops will be held prior to the conference.
- Power & Energy 2015 will be held June 28 – July 2 at the San Diego Convention Center and planning is well underway. Over 500 abstracts have been accepted and a presentation-only submission is still open. Four conferences will join together for the event: Power, Fuel Cell, Energy Sustainability and a Nuclear Forum. Multiple keynote sessions, plenary sessions, technical tracks, workshops, posters, social and technical tours as a well as an extensive exhibit are planned.
- Internal Combustion Engine Conference (ICEF) will take place from Nov 8-11, 2015 at the Omni Westside Hotel in Houston, Texas, with 166 abstracts received, and 138 accepted. There will be an Undergraduate Student Competition with an honorarium and travel award. Keynote speaker will be Dr. Mark Patterson, Manager New Product Development, GE Oil & Gas. Also, there will be a tour of a GE Oil & Gas facility.
- ASME 2015 Gas Turbine India will be held in Hyderabad, India from December 1-3, 2015. The 2-day conference brings together over 200 turbine professionals and includes a day of pre-conference workshops. Over 100 abstracts have been received.

**ESP (Energy Sources & Processing) Segment**

**Quarterly Highlights**

- A Collegiate Council (CC) meeting was held in Denver, Colorado from April 23-26, 2015 with 25 students from ten universities nationwide in attendance. The CC meetings involved petroleum and mechanical engineering speakers, facility tours, and dinners. A visit to an active rig in the Bakken Shale was a highlight of the event.
- The Banff Pipeline Workshops were held in Banff, Alberta, Canada April 12-16, 2015.
- Hydraulic Fracturing (HF) 2015 was held March 16-29 in Houston. The conference included two pre-conference workshops, daily technical sessions, a keynote session with participation from the DoE, the Texas Railroad Commissioner, and API, and e-Poster sessions. The conference included 9 sponsors and a sold out exhibit floor (24 exhibitors).
• The ASME 2015 India Oil & Gas Pipeline Conference was held April 17-18, 2015 in New Delhi, India. Six technical tracks were presented with three plenary talks, an exhibition, and 28 technical papers plus poster session.
• OTC was held in Houston, TX from May 4-7, 2015. One of the largest Oil & Gas topic conferences and exhibits held worldwide, close to 100,000 attendees attended. The sold-out exhibit was over 680,025 ft². ASME is one of 12 professional societies that founded and support the conference each year. ASME organized 12 technical sessions.

Upcoming Activities/What’s on the Horizon?

• HF2016 planning will take place at the Houston event; a venue search is underway now and is expected to be confirmed soon.
• OMAE 2015 will be held in St. John’s, Newfoundland May 30-June 5. More than 800 papers are expected to be presented to 1,000+ attendees.
• The ASME 2015 International Pipeline Geotechnical Conference (IPG2015) is an international event to promote knowledge sharing, technological progress and international cooperation for advancing the management of natural forces impacting pipelines. IPG 2015 will be held July 15-17 in Bogota, Colombia. A poster session, workshops and a small exhibit area will be included. 200 attendees are expected.

ESS (Engineering Sciences) Segment

Quarterly Highlights

• ESS-SLT will hold a F2F meeting in June in San Diego at the 2015 Power & Energy venue.
• A successful 2015 NEMB was held in Minneapolis April 19-22. Three hundred abstracts covering developments in such areas as cancer therapeutics, drug delivery, and diagnostic imaging were featured throughout six tracks, 40 sessions, six plenary talks, five tutorials, and three technical tours. Videos, podcasts, and articles captured onsite will be featured on ASME.org in the coming weeks.

Upcoming Activities/What’s on the Horizon?

• Plans for 2015 IMECE are underway. To date, more than 3400 abstracts have been submitted, surpassing the 2014 IMECE total of 2500 abstracts. Tampa, Florida has been selected as the site for 2017 IMECE.
• Plans for 2016 NEMB are underway. The steering committee, led by Dr. Gang Bao, has been confirmed along with five plenary speakers. The conference will be held in Houston.
• The ASME NanoEngineering for Energy and Sustainability (NEES) Committee continues planning for the inaugural Nanotechnology at the Nexus of Water and Energy (N-NEW), conference, to be held in Abu Dhabi in 2016. The conference will be held in conjunction with Abu Dhabi Sustainability Week.
• The ASME 2016 Heat Transfer/Fluids/ICNMM joint conference will be held in Washington, DC, July 2016.
• Plans for the 2017 Fluids Engineering Division Conference have begun, with site selection underway.
• Discussions between ASME and the Micro, Nano, and Emerging Technologies Commercialization and Education Foundation (MANCEF) ([www.mancef.org](http://www.mancef.org)) are ongoing.
• MCMAT 2015 will be held in Seattle in June.

*DMM (Design, Materials, and Manufacturing) Segment*

*Quarterly Highlights*

• ASME’s Joint Rail Conference was successfully offered at San Jose State University from March 23-26, 2015. Norman Mineta, Retired Secretary, US DOT, delivered a talk.
• AM3D India was successfully held in April in Pune, India. The inaugural conference and exhibition attracted 180+ total participants. GE and SLM Solutions GmbH were sponsors along with the following exhibitors: Axson Technologies, 3DPD, Renishaw, EOS, iCAT (International Centre for Automotive Technology), Intech, voxeljet and SLM. The ASME India Office played a major role in the organization of AM3D India.
• DMM continues to increase use of a closed group page on asme.org to conduct business between monthly teleconferences. The DMM Chair, TEC Rep and the Staff Director continue to meet bi-weekly via teleconference.
• DMM completed a F2F meeting on Friday May 1 and Sunday May 3 in Denver in conjunction with the TEC Division Leader Training event on May 2. Additional meetings were held with Executive Committee members from numerous DMM Divisions including: DED, CIE, ISPS, MED, Aerospace, Plant Engineering, NDPD, Rail, Electronics Packaging and the non-DMM Divisions of Technology & Society and Management so that DMM Segment Leadership Team members could meet Division Leaders in-person and learn about their concerns first-hand.

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

• ASME’s InterPACK will be offered from July 6-9, 2015 in San Francisco. InterPACK is the premier international forum for exchange of state-of-the-art knowledge in research, development, manufacturing, and applications of electronics packaging, MEMS, and NEMS. It is the flagship conference of the Electronics and Photonics Packaging Division (EPPD). The 13th Annual Microchannels will be co-located with InterPACK.
• AM3D North America will be offered from August 2-5, 2015 at the Hynes Convention Center in conjunction with ASME’s IDETC/CIE conferences.
• Planning for an ASME IoT (Internet of Things) conference and exhibition has begun between DMM and the related DMM Divisions including Electronics Packaging and ISPS. Potential dates are in the second half of 2016 in Silicon Valley.
Programs

Public Affairs & Outreach – Bill Wepfer, Reese Meisinger

- ASME officially became a gold member organization of America Makes, the National Additive Manufacturing Institute. John Koehr represented ASME at the member organizations’ April 15-16 meeting in Youngstown, OH. Tom Perry and Maureen Fang, ASME Advanced Manufacturing Fellow are helping to guide the formation of an America Makes Workforce Education Advisory Group of member organizations.

Engineering for Global Development/E4C

Quarterly Highlights

- ISHOW Global – We launched social voting for our India and US ISHOW competition and received over 100,000 votes on the top 20 applications from India and the US. We hosted our India event alongside the AM3D India conference and participants from the event were featured on CNBC Awaaz network. The winners for India were BlumbangReksa, mDOC and GreenChill. More information can be found at www.thisishardware.org. We also secured a $90,000 sponsorship from The Lemelson Foundation as our “Impact Invention” sponsor for the three ISHOW events.
- EGD Conference Programming – Secured two international keynote speakers, Mugendi M’Rithaa of Cape Peninsula University in South Africa and Bilal Khan of the National University of Science and Technology in Pakistan, for the EGD/Design Automation Conference keynote at IDETC.
- E4C 2.0 – We are finalizing the designs for the new site and moving into the development phase.

Upcoming Activities/What’s on the Horizon

- IDETC 2015 – Programmatic efforts are underway for the third annual EGD forum co-hosted by the Design Automation Conference at IDETC Boston in August of 2015.
- ISHOW Global – US event will take place in DC on May 14 and a Kenya event will take place on June 24.
- Engineering for Change Solutions Library 2.0 – Addition of 150+ new products for launch and SL2.0 integration with E4C 2.0.
- DEMAND, ASME Global Development Review – New ASME.org DEMAND landing pages will be launched to support the distribution and marketing strategy. Editorial staff will be secured to scale production.

K12/Diversity/Scholarships

Quarterly Highlights

- INSPIRE Middle School Program: As of March 17th, ASME INSPIRE is now engaged in 378 schools, across 38 states reaching 14K students—well beyond the first year goal of 300 schools. School celebration events aimed at recognizing students who have
successfully completed all 16 missions of the program are scheduled for Riverside Middle School--Evans, GA; Joseph Cavallaro Middle School-Brooklyn, NY; Sam Houston Science, Math and Technical Institute--Houston, TX; Thomas Jefferson Middle School--Lanham, MD; as well as Florida and North Carolina (TBD).

- Scholarships: Round One evaluations have been completed for the ASME Scholarships; Round Two will begin April 24 and May 7. We had a short lead on applications for Society for Hispanic Professional Engineers (SHPE) for this first year, which resulted in six new joint memberships (in one month). Two new $4K joint member scholarships will be awarded. The GPS scholarship general application and guideline template drafts have been completed and are being reviewed. Plans are underway to have the 2014 Roe Scholar speak briefly about what the scholarship meant to her during the Roe Luncheon at the Annual Meeting.

**Engineering Education**

**Quarterly Highlights**

- The 2015 International ME Education Leadership (MEED) Summit was held in Newport Beach, CA on March 11-14 with 136 participants, principally ME department heads. The Summit focused on Advanced Manufacturing and was built around five (5) half-day plenaries on Cloud Computing & the Industrial Internet, Additive Manufacturing in ME Education, Advanced Manufacturing Curricula and Infrastructure and more. The 2016 Summit will continue the Advanced Manufacturing emphasis by focusing on further ME education implications of the industrial Internet, embedded systems and additive manufacturing coupled with the current realities and approaches facing ME departments as they work to increase design-build teaching and facilities capacity while managing historically high enrollments.

- The first of three workshops with the (5) ME departments selected for the NSF/WEPAN/ASME “TECAID” project was held in Scottsdale, AZ, April 16-18 with 5-member faculty teams from Texas Tech, Oregon State, University of Oklahoma, Purdue and Michigan Tech. The workshop focused on managing change in academic environments and a review of current research on department climates and faculty behaviors that work against diversity/inclusion aspirations.

- For 2015-16, nearly 1/3 of the 102 ABET/ASME degree program accreditation evaluations will be outside the U.S. Between September and December, 33 ME programs at universities in Colombia, Peru, Philippines, Saudi Arabia, India, Jordan, Turkey, Mexico, Lebanon, Palestine, the UAE and, for the first time, China, will undergo accreditation visits by ASME Program Evaluators.

- The Participating Societies ratified and the ABET Board of Directors approved the size-reduction restructuring of the Board at its March 28 meeting. ASME/ABET accreditation leader, Mohammad Zahraee (Purdue University/Calumet) was among those elected to serve on new governing Board.

- Initial discussions are underway among ASME engineering education leadership for the framing and launch (at the 2016 Summit) of Vision 2030+ -- Educating the Digital
Mechanical Engineer, as an extension of the continuing Vision 2030 advocacy toward the production of more industry-ready BSME/MET graduates.

Upcoming Activities/What’s on the Horizon?

- June 14-17, 2015, ASEE Annual Conference, Seattle, WA (MEDH & METLC Summer Meetings)
- July 15, 2015, ASME Committees on Engineering/Technology Accreditation Mtgs, Baltimore, MD
- July 16-18, 2015, ABET Commission Meetings, Baltimore, MD
- Sept-December on-campus ABET/ASME accreditation visits to 102 universities.

Government Relations

Quarterly Highlights

- The 2015 Engineering Public Policy Symposium, bringing together over 100 leaders - Presidents, President-Elects and Executive Directors from 44 national engineering societies, representing more than two million engineers - was convened on April 21, 2015, in Washington, D.C. to highlight big data, energy, and manufacturing public policy issues. ASME served as the Chair and lead organizer of the Symposium, which was made possible by a grant from the United Engineering Foundation.
- The Board on Government Relations met on April 20, 2015. Key topics of discussion included future funding for the federal fellows program and an in depth discussion of the mission and vision of the Board on Government Relations.
- On April 20, the Board on Government Relations convened a dinner for 80 ASME Members in the Mansfield Room of the U.S. Capitol to highlight the “Roy V. Wright Lecture.” The 2015 recipient, Michael Molnar, Chief Manufacturing Officer at the National Institute of Standards and Technology and former ASME Federal Fellow, credited the ASME federal fellows program for his career in public service, and he described the fellows program’s critical impact on current federal manufacturing policy. Special recognition was given to ASME Honorary Member John Swanson for his support of the ASME Federal Government Fellowship program. A tour of the U.S. Capitol was conducted for ASME members after the dinner.
- On March 23, ASME co-sponsored a briefing on Capitol Hill entitled, “Policy Perspectives: ESEA (Elementary and Secondary Education Act) and the Future STEM Workforce.”
- ASME was a co-sponsor this year of SWE’s “Diversity and Inclusion Fuels Innovation in STEM” Capitol Hill Day, which was held on March 18-19, 2015. Todd Allen, Diversity and Inclusion Strategy Committee Chair, and Bruce Curry attended on behalf of ASME.
- For a list of the 14 position statements issued since March 2015, please visit: https://www.asme.org/about-asme/get-involved/advocacy-government-relations/policy-publications/position-statements
Upcoming Activities/What’s on the Horizon?

- The Board on Government Relations selected ASME Members Said Jahanmir as a 2015-2016 ASME Congressional Engineering Fellow and Noel Bakhtian as a 2015-2016 ASME Foundation Swanson Fellow. Noel will serve in the Office of Science and Technology Policy in the Executive Office of the White House.
- 2015 Washington Internships for Students of Engineering (WISE) program will run from June 1- July 31, 2014.
- A webinar featuring Matt Hourihan of the AAAS R&D Budget and Policy Program is being scheduled for ASME members in mid-June. The date will be announced shortly.

Industry Advisory Board (IAB)

Quarterly Highlights

- The Industry Advisory Board’s spring meeting, *The Evolution of Advanced Analytics and its Impact on Engineering and ASME*, was held April 28-29, at the GE Global Research Center in San Ramon, CA.
- An IAB webinar was held in early April to prepare participants for the IAB Spring Meeting on April 28-29.

Upcoming Activities/What’s on the Horizon?

- The IAB will host webinars and May and June.
- Planning is underway for the October meeting, to be held at the Digital Manufacturing and Design Innovation Institute in Chicago, IL.

Student & Early Career Development (SECD) - Cynthia Stong, Noha El-Ghobashy

Quarterly Highlights

Programmatic / Operational Activities

**SECD Sector**

SECD council is working closely with the SECD Non-advocate Review Task Force (TF) on SECD Sector Strategy and Program Portfolio. The council had already approved SECD mission, vision, strategic objectives, program portfolios and SECD org structure. The next step is to finalize a transition plan, communication plan and program assessment process.
Student Programs

Quarterly Highlights

- 36 teams participated in the HPVC West that took place on April 24 – 26 in San Jose, CA. 30 teams expected to participate in the HPVC East on May 8 – 10 in Gainesville, FL. Planning is underway for HPVC Latin America in Bogotá, Colombia at Universidad de los Andes in October 15 - 17, 2015.
- Design submission dates for the ASME Innovative Design Simulation Challenge (ASME IDSC) and ASME Innovative Additive Manufacturing 3D Challenge (ASME IAM3D) were extended to May 1, and May 15 respectively. So far for the IDSC challenge, 5 individual and 9 team entries have been received.
- Both ASME IAM3D and ASME Innovative Design Simulation Challenges have been accepted by America Makes to their membership of 120 industry and universities and will be advertised on America Makes home page.
- Celebration of the successful first year of IAM3D took place on April 16th 2015, with the museum like opening of the display of the winning 3D designs at ASME HQ. In attendance at the reception were ASME presidential team, members of the BOG, ELT, Senior ASME staff, winning students and their faculty advisors.
- 9 out of 12 Student Professional Development Conferences (SPDCs) around the world have concluded. The SDC Challenge “Robots for Relief” was considered exceptionally hard by 90+ teams competing in the US. Professional Development seminars and workshops were well attended by ME students across all SPDCs. Industry speakers from Standards and Certification at the University of South Florida and a speaker from the IPTI at the Mexico SPDC were very well received and appreciated by the faculty and students.
- Applications for Outstanding Startup section grants and Outstanding Student section awards are being accepted through May 30, 2015. There are several inquiries from students interested in starting an ASME section at their school in USA which is very encouraging.
- A uniform and transparent process to select 11 Student Regional Chair (SRC) members of the Student Section Enterprise Committee from amongst the worldwide student section leaders has been implemented globally

Upcoming Activities/What’s on the Horizon?

- Registrations are open through May 15 to submit for the 1st rounds of 2015 IAM3D Challenge
- Evaluations of the 1st round of ASME Innovative Design Simulation Challenge in progress with target date of June 5th announcement of the finalists selected to compete at the IDETC/CIE/AM3D in Boston in August
- 2015 SPDC results on winners and actual number of participants are trickling in
- SRC selections to take place during June and July 2015
- Student section awards and grants evaluation by the SSEC with recommendation to the Board on Student Programs will be completed by August 2015
Career Development

Quarterly Highlights

- In March ME Today featured the following articles:
  - How a U.S. New Graduate Can Get a Job in the United Kingdom
  - Podcast: Ursula Burns on Struggle and Success
  - Ten technologies developing countries are using now to adapt to climate change
  - Researcher Focus: Advanced Materials: Kashif Nawaz and Professor Shiren Wang
  - ASME Innovative Design Simulation Challenge: Gears for Speed in a Quarter Mile
  - Five questions with Chris Ategeka
  - A new startup plans to introduce do-it-yourself cellular networks in rural communities worldwide
  - Video: Executive Perspective - No Limits To Engineering
- Two freelance writers were commissioned to deliver nine (9) ME Today articles covering career development topics including highlighting the DAG program, Innovate undergraduate projects, and engineer profiles.
- Program development is in progress for the FutureME Minitalks:
  - IDETC FutureME Minitalks will take place on Sunday, Aug 2, 2015 in Boston, MA. Through a call for presenters, 8 applications for IDETC event were received. The IDETC team is wrapping up interviewing the applicants.
  - IMECE FutureME Minitalks will take place on Sunday, Nov 15, 2015 in Houston, TX. Through a call for presenters, 11 applications for IMECE were received. The IMECE team is starting the interview process in May 2015.
- The Board on Career Development is working on branding its portfolio of programs as FutureME programs
- The ASME FutureME Video Contest featuring “What I wish I’d known about engineering when I entered the work force” closed on April 01, 2015. Three video winners were identified and notified.

Upcoming Activities/What’s on the Horizon?

- Public announcement for the winning videos for the ASME FutureME Video Contest along with featuring them .ORG and YouTube will be made in May 2015
- Interviews with Early Career engineers conducted at IMECE 2014 are in post-production and will be released on .ORG and YouTube in June 2015
- Incoming ECLIPSE Intern will be helping us improve our online social media presence and investigate the best practices for community building
- Branding discussion will continue concerning ECE portfolio of programs as FutureME
- ME Today editorial board will review career development articles for publication from June – Dec 2015
Leadership & Recognition

Quarterly Highlights

- A winner and a runner-up for CT Main and a winner for Outstanding SSA awards as well as the honorable mentions were reviewed and approved by GAC and COH. The notifications were distributed in Apr 2015.
- Local student leadership training program SLTCPeru 2015 in Peru is in planning phase by an attendee of the Student Leader Training Conference (SLTC) in Nov 2014 in Montreal. The event will be modelled on SLTC 2014 and will be jointly organized with ASME Student Section in Peru. SLT committee is advising local students on the best practices and appropriate content for this type of event.

Upcoming Activities/What’s on the Horizon?

- Award ceremony for CT Main and SSA awards at IMECE 2015
- Publications of DAG-related articles
- Reports on DAG projects are due in June 2015

II. Volunteer Orientation and Leadership Training (VOLT) Academy – Justin Young, Dave Soukup, Clare Bruff

Quarterly Highlights

- A Cross-Sector Leadership Development Workshop was held April 16-18 in New York, in conjunction with the Board of Governors meeting. Twelve emerging leaders from across all four sectors participated and the feedback has been very positive.
- The ECLIPSE Leadership Workshop was held in Washington, DC, April 19-21. The interns had a reception and dinner with the Presidential Team on April 19. They attended an all-day orientation and leadership workshop on April 20 and they participated in the Public Policy Symposium on April 21.

Upcoming Activities/What’s on the Horizon?

- The Presidential Candidate and Governor Candidate Briefings have been scheduled for May 8 and 12, respectively.
- A VOLT Leadership Workshop will be held at the Annual Meeting in Jacksonville, FL. The workshop is titled Engineering ASME for the Future and will provide attendees insight into how they can support ASME’s new market-facing strategies. This workshop will be offered twice to maximize participation.
- Three E-Learning modules are currently being developed as part of the “Getting to Know ASME” e-learning series.
III. Group Pathways & Support (GPS)/Group Engagement & Transition Team (GETT) – Karen Ohland, Elio Manes

Quarterly Highlights

- 120 activity approval requests were received and processed through the GPS Requisition Tool between mid-March 2015 and early May 2015. As of the date of this report, 705 group activity requests have been approved through the GPS Requisition Tool.
- Made a GPS overview presentation to ASME Authorized Training Providers at their meeting on March 26, 2015 in Miami, Fla.
- Made a presentation to the Committee on Honors (COH) at their April 10, 2015 meeting in New York to institute guidelines and process for the establishment of new Group-level awards carrying monetary contributions modeled after the Society-level award process. The COH would like additional data on Division and Section awards before they will okay the process or recommend to approve the proposed changes to Policy 3.2. GPS agreed to make this information available to them by June 2015.
- Made revisions to the Group Operating Guide, based on feedback from groups, which were approved by the SMC at their April 16, 2015 meeting in New York. Deployed the revised Group Operating Guide through the GPS Group Page.
- Conducted a training event on May 2, 2015 in Denver, Col, for Division leaders. There was a total of 69 in-person participants, of which 43 were division delegates, plus an additional 15 participants via webcast.

Upcoming Activities/What’s on the Horizon?

- At the 2015 ASME Annual Meeting in Jacksonville, Fla., we are planning for a face-to-face GETT meeting on June 9 in conjunction with the Annual Meeting. GPS and GETT are also planning on meeting with the Sectors and the “Blue Ribbon Panel.”
- A “Section & Affinity Group Leadership Training” event will be held on August 1, co-located with the 2015 Design Conference in Boston, Mass. This training event will be for Sections and Affinity Groups in the U.S., Canada, and Latin America.
- Reviewing proposals from hotels in Amsterdam and Prague for a training event on August 21-23, 2015 for Sections & Affinity Groups in Europe, Asia and the Middle East.
- A webinar is planned for May 2015 on tools, process and timeline for coding new Group Leadership Team (GLT) and the “FY16 Budgeting & Planning” for all Group types.
- Training plans are underway for next FY16 fiscal year, starting with a webinar slated for July 2015 on “Evolving Pathways of Engagement.” This webinar will be for all Group types and is intended to present the new rules and procedures that are currently under development for Scholarships, Fundraising, and Awards.
Date Submitted: May 13, 2015
BOG Meeting Date: June 7, 2015

To: Board of Governors
From: Committee of Past Presidents
Presented by: Leila Persaud, Manager Honors & Fellows
Agenda Title: CY 2014 Fellows Listing

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

Attached for information is the listing of ASME Fellows elected in CY2014.

Proposed motion for BOG Action: (if appropriate)
None

Attachments: Yes
ASME Fellows 2014

Yunho Hwang, Ph.D.
Thomas James, Ph.D.
Ratneshwar Jha, Ph.D.
Ramdev Kanapady, Ph.D.
Kenton R. Kaufman, Ph.D.
Ali M. Khounsary, Ph.D.
Minjun Kim, Ph.D.
Christopher A. Kitts, Ph.D.
Raymond M. Kolonay, Ph.D.
Moncef Krarti, Ph.D.
Gül Kremer, Ph.D.
Miroslav Krstic, Ph.D.
Foluso Ladeinde, Ph.D.
Ming-Chia D. Lai, Ph.D.
Robert G. Landers, Ph.D.
Chad M. Landis, Ph.D.
Michael J. Leamy, Ph.D.
Philip Leduc, Ph.D.
Robert A. Leishear, Ph.D.
Brian W. Leitch
Thomas W. Lester, Ph.D.
Jacqueline J. Li, Ph.D.
Xiao Chuan Li, Ph.D.
Blaine W. Lilly, Ph.D.
Chee W. Lim, Ph.D.
Ching-Long Lin, Ph.D.
Stephen H. Long
Erdogan Madenci, Ph.D.
Pradip Majumdar, Ph.D.
Harry F. Martin
Randal G. McKinney
David F. Merriion
Eduardo A. Misawa, Ph.D.
Masaki Morishita, Ph.D.
Vivekananda Mukhopadhyay, Ph.D.
Thomas J. Muldoon
Andrew P. Murray, Ph.D.
Yuri S. Muzychka, Ph.D.
Hani E. Naguib, Ph.D.
Nirmal V. Nirmalan, Ph.D.
Marcia K. O’Malley, Ph.D.
Brad E. Paden, Ph.D.
Ying Feng Pang, Ph.D.
David M. Parks, Ph.D.
Bob Parry
James A. Parsons, Ph.D.
Michael K. Patterson, Ph.D.
Joel L. Plawsky, Ph.D.
Stephen B. Pope, Ph.D.
Beth L. Pruitt, Ph.D.
Siddiq M. Qidwai, Ph.D.
Jinhao Qiu, Ph.D.
Ardeshir Riahi, Ph.D.
Cecilia Richards, Ph.D.
Christopher B. Rogers, Ph.D.
Paul D. Ronney, Ph.D.
Zvi Rusak, Ph.D.
Armistead G. Russell, Ph.D.
Keyanoush Sadeghipour, Ph.D.
Nilanjan Sarkar
Ioan Sauciuc, Ph.D.
Douglas Scarth
Linda C. Schmidt, Ph.D.
Dennis J. Schumert
Rifat Sipahi, Ph.D.
Bo Song, Ph.D.
Zoltan S. Spakovszky, Ph.D.
Lyndon S. Stephens, Ph.D.
D. Scott Steward, Ph.D.
Wayne S. Strasser
Natteri M. Sudharsan, Ph.D.
Denes K. Tafti, Ph.D.
Kenichiro Takeishi, Ph.D.
Steven M. Tipton, Ph.D.
Fan-Gang Tseng, Ph.D.
Herbert B. Voelcker, Ph.D.
James D. Walker, Ph.D.
Xinwei Wang, Ph.D.
Gregory N. Washington, Ph.D.
Michael E. Webber, Ph.D.
Robert Wiegloszinski
Kyle Wetzel, Ph.D.
Chee Wei Wong, Ph.D.
Shing-Chung Wong, Ph.D.
Kristin L. Wood, Ph.D.
Christine Q. Wu, Ph.D.
Xinran Xiao, Ph.D.
Jer-Liang Yeh, Ph.D.
Zengjing Zhang, Ph.D.
Yongxing John Zhang, Ph.D.
Luzeng Zhang, Ph.D.
Jiang Zhe, Ph.D.
To: Board of Governors
From: Committee on Honors (COH)
Presented by: Cristina Amon
Agenda Title: Approved Society Award Listing

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

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

Honorary Members and ASME Medalist are considered by the BOG in Executive Session on June 7.

Attached for information is the listing of the COH approved awards for FY15.

Proposed motion for BOG Action:

None

Attachment: Yes
**RECIPIENTS OF ASME HONORS AND AWARDS - 2015**

Except as noted below, honors and awards will be bestowed at the International Mechanical Engineering Congress & Exposition in Houston, Texas November 13-19, 2015

**Achievement Awards**

**BARNETT-UZGIRIS PRODUCT SAFETY DESIGN AWARD**

<table>
<thead>
<tr>
<th>John R. Puskar, P.E., Member Prescient Technical Services LLC 11699 Brook Park Road Cleveland, OH 44130</th>
<th>For long-term efforts in transforming industrial gas-fired combustion equipment safety, thereby preventing explosions and fires and saving the lives of countless individuals; and for educating tens of thousands of industrial workers and managers through training programs, inspections and testing systems, and publications (Design Engineering Technical Conferences (IDETC), August 17-20, 2015, in Buffalo, New York)</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Baratunde Cola, Ph.D., Member George W. Woodruff School of Mechanical Engineering Georgia Institute of Technology 771 Ferst Drive Atlanta, GA 30332</th>
<th>For outstanding efforts that have produced seminal measurements and predictions of contact resistance in nanostructured thermal interface materials, and new insight into heat conduction in organic nanomaterials; and for the successful transfer of these developments to industry and to society through creative outreach</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>David T. Blackstock, Ph.D. Department of Mechanical Engineering University of Texas at Austin 204 East Dean Keeton, Stop C2200 Austin, TX 78712</th>
<th>For educational mentorship; for pioneering theoretical, experimental and computational work in nonlinear acoustics including medical ultrasonics, high-intensity sound beams, lithotripsy, parametric arrays, shock waves and sonic booms, improved noise barriers, and propagation and absorption of sound; and for the development of reference data</th>
</tr>
</thead>
</table>

**EDWIN F. CHURCH MEDAL**

<table>
<thead>
<tr>
<th>William J. Wepfer, Ph.D., Fellow 2995 Randolph Road NE Atlanta, GA 30345-3610</th>
<th>For exemplary leadership of one of the largest mechanical engineering programs in the United States, and for continuing to advance mechanical engineering education through visionary initiatives and substantial guidance of the accreditation process (at the ASME 2015 Education Summit, March 12-14, 2015, at the Hyatt Regency Hotel in Newport Beach, CA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Award Name</td>
<td>Recipient Name</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
<td>DANIEL C. DRUCKER MEDAL</td>
<td>Krishnaswamy Ravi-Chandar, Ph.D.</td>
</tr>
<tr>
<td>THOMAS A. EDISON PATENT AWARD</td>
<td>Andy Walker, Ph.D., P.E., Member</td>
</tr>
<tr>
<td>WILLIAM T. ENNOR MANUFACTURING TECHNOLOGY AWARD</td>
<td>Elijah Kannatey-Asibu, Jr., Ph.D., Fellow</td>
</tr>
<tr>
<td>NANCY DELOYE FITZROY AND ROLAND V. FITZROY MEDAL</td>
<td>George W. Sutton, Ph.D., P.E.</td>
</tr>
<tr>
<td>FLUIDS ENGINEERING AWARD</td>
<td>Promode R. Bandyopadhyay, Ph.D., Fellow</td>
</tr>
</tbody>
</table>
### Y.C. Fung Young Investigator Award

<table>
<thead>
<tr>
<th>Name: Adam J. Engler, Ph.D., Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Bioengineering</td>
</tr>
<tr>
<td>University of California, San Diego</td>
</tr>
<tr>
<td>The Engler Laboratory</td>
</tr>
<tr>
<td>9500 Gilman Drive</td>
</tr>
<tr>
<td>Mail Code 0695</td>
</tr>
<tr>
<td>La Jolla, CA 92093-0412</td>
</tr>
</tbody>
</table>

For innovative contributions to the field of bioengineering through research in mechanobiology and the interactions between cells and their extracellular matrix, and for translating basic scientific findings of cell-matrix interactions into important applications related to clinical medicine *(at the ASME Bioengineering and Biotransport Conference, June 17-20, at the Snowbird Resort, in Salt Lake City, Utah)*

### Kate Gleason Award

<table>
<thead>
<tr>
<th>Name: F. Suzanne Jenniches</th>
</tr>
</thead>
<tbody>
<tr>
<td>35764 Atlantic Avenue</td>
</tr>
<tr>
<td>Box 1450</td>
</tr>
<tr>
<td>Ocean View, DE 19970</td>
</tr>
</tbody>
</table>

For outstanding leadership in manufacturing innovation; for setting the highest standards of excellence in producibility engineering; and for tireless efforts to increase women’s participation in STEM careers

### Melvin R. Green Codes and Standards Medal

<table>
<thead>
<tr>
<th>Name: James A. Thomas</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
</tr>
<tr>
<td>ASTM International</td>
</tr>
<tr>
<td>100 Barr Harbor Drive</td>
</tr>
<tr>
<td>West Conshohocken, PA 19428-2959</td>
</tr>
</tbody>
</table>

For extraordinary leadership, and achievements on multiple fronts, to ensure voluntary consensus standards developed by ASTM and ASME continue to be afforded fair treatment as international standards under the World Trade Organization’s Technical Barriers to Trade Agreement; thus facilitating the ability for national regulatory authorities and global industries to select ASME standards as their standard of choice

### J.P. Den Hartog Award

<table>
<thead>
<tr>
<th>Name: David J. Ewins, Ph.D., P.E., Member</th>
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<tbody>
<tr>
<td>Woodpeckers</td>
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<tr>
<td>Ogwell Mill Road</td>
</tr>
<tr>
<td>Newton Abbot</td>
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<tr>
<td>Devon,TQ12 6LS</td>
</tr>
<tr>
<td>Untinted Kingdom</td>
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</table>

For outstanding educational and research activities in the area of vibration testing and turbo machinery analysis; and for efforts to bring about an integration of experimental, mechanical and theoretical methods *(ASME 2013 International Design Engineering Technical Conferences (IDETC), in Portland, Oregon, August 4-7, 2013)*

### Heat Transfer Memorial Award

<table>
<thead>
<tr>
<th>Name: John H. Lienhard V, Ph.D., P.E., Fellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering</td>
</tr>
<tr>
<td>Massachusetts Institute of Technology</td>
</tr>
<tr>
<td>Room 3-166</td>
</tr>
<tr>
<td>77 Massachusetts Avenue</td>
</tr>
<tr>
<td>Cambridge, MA 02139-4307</td>
</tr>
</tbody>
</table>

For outstanding contributions in technology development of thermally driven desalination and temperature control of electronic test equipment; and in fundamental studies of liquid jet impingement cooling, Rayleigh-Benard instability, thermal stratified turbulence and extremely high heat flux heat transfer
## GENERAL

| Francis A. Kulacki, Ph.D., Fellow  
Department of Mechanical Engineering  
University of Minnesota  
111 Church Street S.E.  
Minneapolis, MN 55455 | For fundamental contributions to the understanding of convective heat transfer in porous media and natural convection in volumetrically heated fluids and in tube bundles; and for research that has resulted in the development of heat transfer correlations and data sets that have benefited both modelers and designers and impacted engineering for nuclear reactor safety and geologic waste disposal |

## SCIENCE

| Zhuomin Zhang, Ph.D., Fellow  
George W. Woodruff School of Mechanical Engineering  
Georgia Institute of Technology  
801 Ferst Drive N.W.  
Atlanta, GA 30332-0405 | For seminal research contributions in nanoscale thermal radiation including near-field radiative heat transfer and far-field radiative properties of nanostructured materials such as thin films and multilayers, gratings, photonic crystals, and metamaterials for semiconductor manufacturing and energy harvesting |

## MAYO D. HERSEY AWARD

| Ali Erdemir, Ph.D., Fellow  
Argonne National Laboratory  
Energy Systems Division  
9700 S Cass Avenue  
Argonne, IL 60439 | For significant contributions to tribology including the design, synthesis and implementation of new materials, coatings and lubricants that can increase energy efficiency, durability and environmental compatibility of advanced transportation systems (2015 Tribology Frontiers Conference October 25-27, 2015, Denver, Colorado) |

## PATRICK J. HIGGINS MEDAL

| Shabbir M. Rawalpindiwala  
1040 Woodlake Road  
Kohler, Wisconsin 53044 | For contributions on numerous technical specifications for plumbing products including authoring more than 100 proposals; and for leadership on the ASME A112 Plumbing Materials and Equipment Committee, and extraordinary commitment to the harmonization process between the U.S. and Canada (2015 ASME A112/CSA Standards Committee Meeting January 26-29, 2015, in San Antonio Texas) |

## SOICHIRO HONDA MEDAL

| Thomas D. Gillespie, Member  
Director of Product Planning  
Mechanical Simulation Corporation  
755 Phoenix Drive  
Ann Arbor, MI 48108-2222 | For pioneering research on vehicle dynamics and modeling, with emphasis on truck applications, that has had broad implications for traffic safety, and raised awareness of commercial vehicle performance, braking behavior, stability and energy demand; and for serving as an educator of practicing engineers, particularly through the sharing of real-world knowledge in presentations and seminars worldwide |
**INTERNAL COMBUSTION ENGINE AWARD**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>Volker Sick, Ph.D.</td>
<td>Mechanical Engineering Department</td>
<td>For pioneering work in the application of laser diagnostics to study the interactions of fuel injection, flow physics and combustion processes to further the development of new engine concepts, particularly direct-injection spark-ignition engines (Internal Combustion Engine Fall 2015 Technical Conference - November 8-11, 2015, in Houston, Texas)</td>
</tr>
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**WARNER T. KOITER MEDAL**

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Description</th>
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<tbody>
<tr>
<td>Kaushik Bhattacharya, Ph.D., Fellow</td>
<td>Department of Mechanical and Material Science, California Institute of Technology</td>
<td>For the development of novel, rigorous and predictive methods for the multiscale behavior of modern engineering materials at scales ranging from subatomic to polycrystal, with special focus on multifunctional materials</td>
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**ROBERT E. KOSKI MEDAL**

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<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Description</th>
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<tbody>
<tr>
<td>Monika Ivantysynova, Ph.D., Member</td>
<td>Department of Agricultural and Biological Engineering, Purdue University</td>
<td>For significant contributions in the area of analysis, design and control of axial piston pumps and hydrostatic-transmission systems, which are used to transmit fluid power in automotive, industrial and aerospace applications; and for efforts to create paths to disseminate fluid power research results (2015 ASME/BATH Symposium on Fluid Power and Motion Control (FPMC) October 12-14, 2015, in Chicago, Illinois)</td>
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**FRANK KREITH ENERGY AWARD**

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<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Description</th>
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<tbody>
<tr>
<td>Michael Webber, Ph.D., Fellow</td>
<td>Mechanical Engineering Department</td>
<td>For excellence in energy research including the energy-water nexus; and for leadership in promoting energy literacy including the creation of a massive open online course and a television special</td>
</tr>
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</table>

**ALLAN KRAUS THERMAL MANAGEMENT MEDAL**

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<tr>
<th>Name</th>
<th>Organization</th>
<th>Description</th>
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<tbody>
<tr>
<td>Martha Rencz, Ph.D.</td>
<td>Department of Electron Devices and Economics, Budapest University of Technology</td>
<td>For the methodology of structure function based in situ and ex situ characterization of thermal interface materials and thermal characterization of semiconductor device packages, which has become an industry standard for the measurement of junction-to-case thermal resistance; and for structure function based test methods that led to the development of successful industrial products</td>
</tr>
</tbody>
</table>
### BERNARD F. LANGER NUCLEAR CODES AND STANDARDS AWARD

| Thomas J. Vogan, P.E., CPM, Member | For long-term contributions to ASME including service as chair of the Executive Committee and the Standards Committee on Nuclear Air and Gas Treatment, and for dedicated mentoring of junior committee members (Committee on Nuclear Air and Gas Treatment July 13-16, 2015 in Columbus, Ohio) |
| Sargent & Lundy LLC | |
| 12642 Suffield Drive | |
| Palos Park, IL 60464 | |

### GUSTUS L. LARSON MEMORIAL AWARD

| Nikhil Ashok Koratkar, Ph.D., Member | For outstanding achievements in mechanical engineering within 10 to 20 years following graduation |
| Department of Mechanical Engineering | |
| Rensselaer Polytechnic Institute | |
| 110 8th Street | |
| Troy, NY 12180-3522 | |

### H.R. LISSNER MEDAL

| James Anthony Ashton-Miller, Ph.D., Fellow | For outstanding research contributions in the biomechanics of injuries, particularly neuromuscular mechanisms of fall-related injuries in the elderly, and strain-induced birth-related injuries and their sequelae in women (at the ASME Bioengineering and Biotransport Conference, June 17-20, at the Snowbird Resort, in Salt Lake City, Utah) |
| Department of Mechanical Engineering | |
| College of Engineering | |
| University of Michigan | |
| 3208 G.G. Brown Building | |
| 2350 Hayward Street | |
| Ann Arbor, MI 48109-2125 | |

### MACHINE DESIGN AWARD

| Jorge Angeles, Ph.D., P.E., Fellow | For distinguished work on kinetostatic isotropy, qualitative synthesis and model-based design methods, with broad industrial collaboration, that has had a significant impact on the design of robotic and other mechanical systems such as linkages, cams, gears and clutches (ASME 2015 International Design and Engineering Technical Conferences & Computers and Information in Engineering Conference (IDETC/CIE) August 2-5, 2015, in Boston, Massachusetts) |
| Department of Mechanical Engineering | |
| McGill University | |
| 817 Sherbrooke Street West | |
| MacDonald Engineering Building, Room 270 | |
| Montreal, Quebec H3A OC3 | |
| Canada | |

### CHARLES T. MAIN STUDENT SECTION LEADERSHIP AWARD

#### GOLD

| Jonathan Jennings, Member | For outstanding contributions to ASME including past service as president of the University of Missouri Student Section and current service at the national level as chair of the Student Section Enterprise Committee for Region 2 |
| 1704 Jackson Street | |
| Columbia, MO 65202 | |

#### SILVER

| Caleb Amy, Member | For dedicated service to ASME ranging from treasurer and chair of the Student Section at the University of Central Florida to vice chair and chair of the Student Region 5 Board |
| 14417 Flo Road | |
| Orlando, FL 32882 | |
**McDONALD MENTORING AWARD**

<table>
<thead>
<tr>
<th>Carlos L. Lasarte, Fellow</th>
<th>For dedicated service to ASME including mentoring both professional and student members, laying the foundation for the Latin America and Caribbean District, serving as Student Sections Committee representative and District I leader, and developing several programs to benefit the membership</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>David Dornfeld, Ph.D., Fellow</th>
<th>For outstanding contributions to manufacturing research and its implementation in industry through the pioneering development of life cycle analysis tools to quantify the environmental impacts of the manufacturing supply chain; and for leadership in U.S. research in sustainable manufacturing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical Engineering 6143 Etcheverry Hall University of California Berkeley CA 94720-1740</td>
<td></td>
</tr>
</tbody>
</table>

**VAN C. MOW MEDAL**

<table>
<thead>
<tr>
<th>Dawn M. Elliott, Ph.D., Fellow</th>
<th>For significantly advancing the field of biomedical engineering through contributions in musculoskeletal tissue structure-function research, student mentorship with a focus on women, and leadership in the ASME Bioengineering Division including tireless efforts on the Summer Bioengineering Conference (at the ASME Bioengineering and Biotransport Conference, June 17-20, 2015, at the Snowbird Resort, in Salt Lake City, Utah)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioengineering Department University of Delaware Biomedical Engineering 161 Colburn Laboratory Newark, DE 19716</td>
<td></td>
</tr>
</tbody>
</table>

**NADAI MEDAL**

<table>
<thead>
<tr>
<th>Huajian Gao, Ph.D., Fellow</th>
<th>For groundbreaking contributions to hierarchical nanotwinned metals, energy storage materials, metallic glasses and diffusional creep of metal thin films</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Engineering Brown University 182 Hope Street Providence, RI 02912-0001</td>
<td></td>
</tr>
</tbody>
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**SIA NEMAT-NASSER EARLY CAREER AWARD**

<table>
<thead>
<tr>
<th>Yong Zhu, Ph.D., Member</th>
<th>For outstanding contributions to the mechanics of nanomaterials including interfacial mechanics with applications to nanomaterial-enabled stretchable electronics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Mechanical and Aerospace Engineering North Carolina State University 911 Oval Drive Raleigh, NC 27695</td>
<td></td>
</tr>
</tbody>
</table>

**BURT L. NEWKIRK AWARD**

<table>
<thead>
<tr>
<th>David L. Burris, Ph.D., Member</th>
<th>For outstanding experimental and theoretical contributions in the area of cartilage tribology and contact mechanics (2015 Tribology Frontiers Conference October 25-27, 2015, Denver, Colorado)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineering Department University of Delaware 126 Spencer Laboratory Newark, DE 19716</td>
<td></td>
</tr>
</tbody>
</table>
### RUFUS OLDENBURGER MEDAL

| Manfred Morari, Ph.D. | ETH Zurich  
| Automatic Control Laboratory  
| ETL I 29, Physikstrasse 3  
| 8092 Zurich  
| Switzerland | For pioneering theoretical contributions to process control, hybrid system analysis and model predictive control; and for practical applications to biomedical engineering, chemical process control and automotive systems (ASME 2015 Dynamic Systems and Control (DSC) Conference will be held October 28-30, in Columbus, Ohio) |

### OLD GUARD EARLY CAREER AWARD

| Twishansh Mehta, Member | 136 Upton Crescent  
| Markham, Ontario L3R 3T4  
| Canada | For continuous service to ASME, from student through professional member, including numerous section, district and society-level positions; for career accomplishments including technical, management and leadership roles; and for inspiring volunteers through a passion for mentoring and developing engineering leaders |

### OUTSTANDING STUDENT SECTION ADVISOR AWARD

| Selin Arslan, Member | Mechanical Engineering Department  
| Lawrence Technical University  
| 21000 West 10 Mile Road  
| Southfield, MI 48075 | For outstanding service as faculty advisor for the ASME Student Section at Lawrence Technological University including diligence and dedication that revitalized the section; and for making a positive difference in students’ lives, both in and outside the classroom |

### PERFORMANCE TEST CODES MEDAL

| Thomas C. Heil, Fellow | Retired  
| 426 Sandy Avenue, N.E.  
| Massillon, OH 44646 | For outstanding contributions to performance test codes, particularly for the testing of steam generators and related auxiliaries; and for developing computational methods and software for determining results, including test uncertainty, from the test data |

### PI TAU SIGMA GOLD MEDAL

| Neil Dasgupta, Ph.D. | Department of Mechanical Engineering  
| University of Michigan  
| GG Brown Laboratory  
| 2350 Hayward  
| Ann Arbor, MI 48109 | For outstanding achievements in mechanical engineering within 10 years of graduation |

### JAMES HARRY POTTER GOLD MEDAL

| Ahmed F. Ghoniem, Ph.D., Fellow | Department of Mechanical Engineering  
| Massachusetts Institute of Technology  
| 77 Massachusetts Avenue  
| MS 3-342  
| Cambridge, MA 02139 | For outstanding work on reducing the environmental impact of fossil fuels through efficiency improvement and CO₂ capture, including system-level analysis of thermodynamic cycles, component-level computational fluid dynamics and experimental diagnostics of combustion, and microscale analysis of oxy-combustion and gasification fundamentals |
### S.Y. ZAMRIK PRESSURE VESSELS AND PIPING MEDAL

| L. Ike Ezekoye, Ph.D., P.E., Fellow  
1407 Old Beulah Road  
Pittsburgh, PA 15235 | For providing numerous services to ASME including Codes and Standards, and the Pressure Vessels and Piping Division; for long-term contributions to the PVP Operations, Applications and Components Technical Committee; and for significant contributions to the design, analysis and maintenance of valves in nuclear power plants worldwide (2015 ASME Pressure Vessels & Piping Conference, July 22, at the Boston Park Plaza Hotel in Boston, Massachusetts) |

### DIXY LEE RAY AWARD

| Kaufui Vincent Wong, Ph.D., P.E.  
Department of Mechanical and Aerospace Engineering  
University of Miami  
1251 Memorial Drive  
Room #209  
Coral Gables, FL 33155 | For timely contributions that have expanded the environmental engineering knowledge base including original research using the second law of thermodynamics to evaluate system impact on the environment, early papers on the energy-water-food nexus, and a patent for an innovative boom to protect the environment against oil spills |

### RALPH COATS ROE MEDAL

| Freeman A. Hrabowski III, Ph.D.  
Office of President  
University of Maryland Baltimore County  
1000 Hilltop Circle  
Baltimore, MD 21250 | For tireless efforts as a global advocate for science, technology, engineering and mathematics, engaging the general public, lawmakers, funding agencies and foundations to create opportunities for minorities in STEM fields to achieve the socioeconomic and intellectual integration essential for innovative, democratic societies |

### SAFETY CODES AND STANDARDS MEDAL

| Bradley D. Closson, Member  
Principal  
Craft Forensic Services  
1057 Calle Mesita  
Bonita, CA 91902-2405 | For more than 25 years of outstanding leadership in the proposal and development process for numerous safety standards including service as vice chair and chair of the B30 Safety Standards Committee for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks and Slings (B30 Committee meetings September 20, 2015, in Salt Lake City, Utah) |

### R. TOM SAWYER AWARD

| Lee S. Langston, Ph.D., Fellow  
199 Jenny Cliff  
Manchester, CT 06040-6861 | For technical leadership in advancing turbine aerodynamics and heat transfer, particularly pioneering research in three-dimensional flows within a turbine cascade; and for exceptional lifelong service and advocacy of IGTI (ASME Turbo Expo, Turbine Technical Conference and Exposition, 15-19 2015, at the Palais des Congrès de Montréal, Canada) |
**MILTON C. SHAW MANUFACTURING RESEARCH MEDAL**

| Y. Lawrence Yao, Ph.D., Fellow  
Department of Mechanical Engineering  
Columbia University  
500 West 120th Street  
220 Mudd Building, M/C 4703  

**BEN C. SPARKS MEDAL**

| Christopher A. Mattson, Member  
Brigham Young University  
15 Brook Lane  
LE11 3RA, Loughborough  
Leicestershire, England  
United Kingdom  
Carl D. Sorensen  
Department of Mechanical Engineering  
Brigham Young University  
435 JCTB  
Provo, UT 84604 | For outstanding contributions through the BYU Capstone, an industry-sponsored design/build program for Brigham Young University undergraduate students, which has helped provide a new generation of Renaissance engineers with a global perspective to solve economic, environmental, cultural and societal challenges (ASME 2015 Education Summit, March 12-14, 2015, at the Hyatt Regency Hotel in Newport Beach, CA) |

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

| Alice M. Agogino, Ph.D., Fellow  
3514 Dwight Way  
Berkeley, CA 94704 | For tireless efforts in furthering engineering design education including curriculum changes that blend cutting-edge design topics with state-of-the-art educational practices; promoting wide-ranging interaction between industry and students; performing game-changing design research; and mentoring the next generation of designers, educators, researchers and engineers (International Design and Engineering Technical Conferences (IDETC), August 2-5, 2015, in Boston, Massachusetts) |

**SPIRIT OF ST. LOUIS MEDAL**

| Dewey H. Hodges, Ph.D., P.E., Fellow  
Aerospace Engineering Department  
Georgia Institute of Technology  
Weber Space Science and Technology Building, Room 200-C,  
275 Ferst Drive N.W.  
Atlanta, GA 30332 | For the development of the theory and methodology for modeling the dynamics and aeroelasticity of composite helicopter rotor blades, highly flexible slender aircraft wings and wind turbine blades; and its implementation in the VABS software used extensively in research and industry |

**J. HALL TAYLOR MEDAL**

| Peter A. Molvie, Fellow  
Cleaver-Brooks  
Produc Development  
3232 West Lancaster Avenue  
Milwaukee, WI 53209-5458 | For distinguished leadership and professionalism in the advancement and recognition of ASME codes and standards for pressure equipment, and for significant contributions to the development and standardization of power and heating boiler equipment design and construction |
### ROBERT HENRY THURSTON LECTURE AWARD

**Horacio D. Espinosa, Ph.D., Fellow**  
718 Hibbard Road  
Winnetka, IL 60093  
For sustained innovation in experimental micro and nano mechanics and its application to multiscale material characterization, from in situ electron microscopy to wave propagation experiments

### TIMOSHENKO MEDAL

**Michael Ortiz, Ph.D., Member**  
Department of Aeronautics and Mechanical Engineering  
California Institute of Technology  
1200 East California Boulevard  
Mail Code 105-50  
Pasadena, CA 91125  
For seminal, groundbreaking and creative contributions, particularly the creation of the quasicontinuum method, the formulation of an incremental variational principle to predict dislocation substructures, the development of modeling fragmentation with cohesive models, and the formulation of integrators for elastoplastic materials and variational time integrators

### YERAM S. TOULOUKIAN AWARD

**David G. Cahill, Ph.D.**  
Department of Chemical and Biomolecular Engineering  
University of Illinois at Urbana-Champaign  
1304 West Green Street  
Urbana, IL 61801  
For sustained, pioneering contributions to heat conduction metrology including the 3-omega and optical pump-probe methods, which are pervasive in laboratories worldwide; and for landmark contributions on the minimum and ultralow thermal conductivities of solids (during the 19th Symposium On Thermophysical Properties, Boulder, CO, June 21 - 26, 2015)

**Mikhail A. Anisimov, Ph.D.**  
Department of Chemical and Biomolecular Engineering  
University of Maryland  
College Park, MD 20742  
For the performance of crucial experiments and introduction of new concepts including isomorphism, non-asymptotic critical behavior, complete scaling and competing length scales; and for deepening the understanding of phase behavior, criticality and thermophysical properties of complex fluids, liquid crystals, polymer solutions, supercooled water and crude oils (during the 19th Symposium On Thermophysical Properties, Boulder, CO, June 21 - 26, 2015)

### GEORGE WESTINGHOUSE GOLD MEDAL

**Karen A. Thole, Ph.D., Fellow**  
Mechanical and Nuclear Engineering Department  
Pennsylvania State University  
136 Reber Building  
University Park, PA 16802-1412  
For outstanding contributions toward better cooling of gas turbine airfoils, particularly the discovery of a leading-edge fillet to reduce vortices in airfoil passages and the development of physics-based correlations used by industry for predicting microchannel cooling and film cooling

**Angela Violi, Ph.D., Member**  
Department of Mechanical Engineering  
University of Michigan  
2250 G.G. Brown Laboratories  
2350 Hayward Street  
Ann Arbor, MI 48109-2125  
For career efforts that have focused on high-temperature chemically reacting systems, which are critical to widespread applications including energy utilization and advanced materials
### HENRY R. WORTHINGTON MEDAL

| Jinkook Lee, Ph.D., Fellow  
11451 Viceroy Street  
Concord, OH 44077-2401 | For three decades of outstanding contributions to the design of commercial and military jet engine fuel pumps; and for the novel design, development and qualification of centrifugal fuel pumps for the most advanced and powerful jet engines |

### GAS TURBINE AWARD

| Harika S. Kahveci, Ph.D., Member  
GE Marmara Technology Center  
Muhendislik Hizmetleri Ltd. Sti  
Tubitak Marmara Arastirma Merkezi Teknologi Bolgesi, 41471 Gebze, Kocaeli  
Turkey  
Kevin R. Kirtley, Ph.D.  
General Electric Power and Water  
300 Garlington Road  
Mail Stop 1356  
Greenville, SC 29615-4614 | For the paper titled “Comparison of Temperature Profile And Heat Transfer Predictions With Statistically Modeled Data From A Cooled 1-1/2 Stage High-Pressure Transonic Turbine” (ASME Turbo Expo, Turbine Technical Conference and Exposition, 15-19 2015, at the Palais desCongrès de Montréal, Canada |

### MELVILLE MEDAL

| Pradeep Sharma, Ph.D., Fellow  
Department of Mechanical Engineering  
University of Houston  
Engineering Building 1  
4800 Calhoun Road  
Houston, TX 77204  
Parnia Mohammadi  
702 Daria Court  
Houston, TX 77079  
Liping Liu, Ph.D.  
Department of Mathematics and Aerospace Engineering  
Rutgers University  
98 Brett Road  
Newark, NJ 08854 | For the paper “A Theory of Flexoelectric Membranes and Effective Properties of Heterogeneous Membranes Recent developments in flexoelectricity, especially” |

### WORCESTER REED WARNER MEDAL

| John H. Lau, Ph.D., P.E., Fellow  
961 Newell Road  
Palo Alto, CA 94303 | For outstanding contributions to the permanent literature of engineering through a sustained series of books, papers and lectures on mechanical, microelectronic and optoelectronic engineering, which established a new discipline known as the finite element analysis of microelectronic and optoelectronic components and systems |
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<th>ARTHUR L. WILLISTON MEDAL</th>
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<td><strong>FIRST</strong></td>
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<tr>
<td>Matthew D. Hill, Member</td>
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<td>1404 Flowers Drive</td>
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<td><strong>SECOND</strong></td>
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<td>Tara Larkin, Member</td>
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<td>United States Military Academy</td>
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<td>31 Mohegan Avenue</td>
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<td>New London, CT 06320</td>
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<td>For the paper “The use of Robots to Sustain Human Life on Mars”</td>
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<td>Joseph R. Schaadt, Member</td>
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<tr>
<td>Villanova University</td>
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<tr>
<td>775 Cascade Drive</td>
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<td>Sunnyvale, CA 94087</td>
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<td>For the paper &quot;Journey to Mars, the Role of Robotics in the Apollo 11 of the Coming Generation&quot;</td>
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ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 13, 2015
BOG Meeting Date: June 7, 2015

To: Board of Governors
From: Committee on Honors
Presented by: Cristina Amon
Agenda Title: Proposed New Society Award

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

The Committee on Honors at their April 10, 2015 meeting approved the establishment of the ASME Savio L-Y. Woo Translational Biomechanics Medal.

Proposed motion for BOG Action:

To accept the Committee on Honors recommendation to establish the ASME Savio L-Y. Woo Translational Biomechanics Medal as a Society-Level Award.

Attachments: Yes
Proposal to Establish

ASME Savio L-Y. Woo Translational Biomechanics Medal

by

ASME Bioengineering Division

1. One of ASME’s main missions is to apply engineering knowledge to improve the quality of life. One of the main purposes for bioengineering research is to discover new knowledge about biological function in normal, injured/diseased, and repaired states, to then develop new approaches to improve conditions for healthcare delivery. The proposed ASME Savio L-Y. Woo Translational Biomechanics Medal will be a society level achievement award that will recognize a sustained level of meritorious contributions in translating bioengineering research to clinical application, to improve the quality of life.

2. Name of Award. ASME Savio L-Y. Woo Translational Biomechanics Medal; abbreviation, ASME Savio L-Y. Woo Medal

3. Achievement to be Recognized. The Savio L-Y. Woo Medal is bestowed upon an individual who has translated meritorious bioengineering science to clinical practice through research, education, professional development, and with service to the bioengineering community.

4. Outline of Award with reasons for the award to be established. This award is proposed in honor of Savio Lau-Yuen Woo, Ph.D., Distinguished University Professor of Bioengineering and the Founder and Director of the Musculoskeletal Research Center (MSRC), a diverse multidisciplinary research and educational center in the Department of Bioengineering at the University of Pittsburgh. Dr. Woo joined the faculty at the University of Pittsburgh in 1990 following 20 years of service at the University of California in San Diego as a Professor of Surgery and Bioengineering. Over 460 orthopaedic surgeons, biologists, bioengineering students and staff have studied and worked under his mentorship from every corner of the world.

Dr. Woo is a pioneer in bioengineering and is renowned for his scholarly contributions. Together with his team, they have authored 310 original research papers in refereed journals, 141 book chapters and review papers and over 817 abstracts. He has edited 12 books and 18 conference proceedings, in addition to delivering more than 880 lectures both nationally and internationally over five continents.

Not only have these scholarly contributions impacted the bioengineering and biomechanics fields, the 40 years of translational research have significantly contributed to the delivery of healthcare. Even early in his career, Dr. Woo’s research findings were translated to change clinical practice by providing basic science evidence for an approach or technique. A first example is in the area of healing long bone fractures where his research clearly established that the practice of applying large, rigid metallic plates led to stress shielding of the newly healed bone making it relatively
weak with high refracture risk after plate removal. With his team, plates with tailored properties improved bone healing and patient outcomes. This breakthrough in the field was subsequently recognized by the American Academy of Orthopaedic Surgeons/Orthopaedic Research Society with the prestigious Kappa Delta Award.

Dr. Woo’s impact on sports medicine through his comprehensive studies of the nonlinear viscoelasticity and mechanical properties of biological tissues and his in-depth investigation of the complex function of knee ligaments is absolutely unparalleled by any engineer. He pioneered the "Controlled Motion is Good" movement in rehabilitation based on his discovery of the positive effects of stress and motion on healing and repair of soft tissues. This was a clinical paradigm shift from automatic immobilization regimens. Recovery of soft-tissue injuries is now much faster with improved patient outcomes thanks to Dr. Woo’ work. His research and teaching has altered the fundamental ways in which physicians and surgeons treat sports-related injuries.

Dr. Woo also pioneered the use of computer modeling and robotic technology to study joint mechanics and the effect of ligament injury on joint function. His research team creatively used robots to reproduce motions occurring during normal, everyday activities, and simultaneously determine the forces that such motions generate in the ligaments of a particular joint. This information is then combined with computer models to assist in surgical planning and predict the success of surgical techniques. Dr. Woo’s approach to robotic testing of knee and shoulder movement has helped define the beneficial effect that motion may impart to the healing process. His efforts spur advancements in the surgical treatment and rehabilitation of patients with ligament and tendon injuries, leading the practice of orthopaedic surgery and sports medicine into the 21st century.

More recently, Dr. Woo has made significant advances in the field of functional tissue engineering involving bioscaffolds, i.e., small intestinal submucosa from genetically altered pigs to regenerate injured ligaments and tendons, the anterior cruciate ligament of the knee, in particular. Further, he is leading the pioneering efforts of using degradable biometalic materials to regenerate severely injured ligaments and tendons during sports activities.

For his work, Dr. Woo has been recognized by many professional societies. Most notably, he has been inducted by the Institute of Medicine (USA), The National Academy of Engineering (USA), and Academia Sinica (Republic of China), only one of four persons who have gained all three of these honors. In 1998, Dr. Woo received the Olympic Prize for Sports Science from the International Olympic Committee and the first Olympic gold medal at the Nagano Games in Japan.

5. Comparison of Award to other similar ASME awards. The Bioengineering Division has 3 endowed medals – YC Fung Young Investigator Medal, Van C. Mow Medal, and Herbert R. Lissner Medal. These awards are purpose to recognize outstanding achievements in bioengineering at different stages of an investigator’s career – early career (Fung Medal), mid-career (Mow Medal), and senior career (Lissner Medal). None of these awards focus attention on translating the scientific findings of our field to clinical application where the ultimate purpose of our work is aimed, to improve the delivery of healthcare. No other awards within the society address the translational aspects envisioned with this medal.
6. **Nominee Requirements.** Any member of ASME who has demonstrated a sustained level of outstanding achievement in translating bioengineering findings to the clinical community may be eligible for the medal. Examples of meritorious activity might be basic bioengineering science that translates into a medical device or equipment, contributes to new approaches of disease treatment, establishes new injury treatment modalities, etc. The award may be made to qualified domestic as well as international members.

While the nominations will be kept active for three years, the nominators will be encouraged to provide updates if appropriate.

7. **Limitations.** Nominee must an active member of the ASME Bioengineering Division.

8. **Form of Award.** Honorarium of $1000; a bronze medal featuring a likeness of Dr. Savio L-Y. Woo; a certificate; and travel expense supplement to attend award presentation.

9. **Award Endowment.** $75,000 is available in the BED Custodial Account and will be raised with the Foundation. Additional funds will be made available to cover the start-up expenses of this new award which will include medal design, medal striking, ordering at least five (5) new medals for inventory and certificates. Initial cost for the medal die is estimated to be $4,000-$5,000 and then the annual cost for producing the medal is estimated to be $200-$300 per year. The cost associated with the production of the certificate is estimated to be $50-$100 per year. The Chair of the ASME Savio L-Y. Woo Medal special awards committee (item 11) will keep the current information about the medallion vendor on file.

10. **Sponsorship and Administrative Responsibility.** The ASME Bioengineering Division is the sponsor for the Savio L-Y. Medal. The Savio L-Y. Woo Medal Committee, a special awards committee proposed by the Bioengineering Division and approved by ASME/COH, will have administrative responsibility for selecting proposed nominees for the medal to ASME/COH. The final approval will be by ASME/COH. The Bioengineering Division will negotiate for essential staff support from K&C.

In addition to fulfill nomination details for the finalist, the special award committee will send a summary report/list of all nominations considered to indicate the pool of candidates in each award cycle to the ASME Committee on Honors (ASME/COH). If the recommended awardee by the special awards committee is not eligible for any reason, the ASME/COH will consult the special awards committee chair to choose an alternate.

For information and submission of nominations, contact the Chair of the Savio L-Y. Woo Medal Committee. More specific contact information will be provided on the ASME website.

11. **Selection Process.** The Savio L-Y. Woo Medal Committee ("Medal Committee"), a special awards committee, will select the awardee for final approval by the ASME Committee on Honors (ASME/COH). Nominations of potential awardees are accepted by the Medal Committee from any ASME member with active Bioengineering Division participation. The awardee must have no more than one negative vote within the special awards committee. In some years, there may not be any awardee to recommend to ASME/COH.
The Medal Committee will consist of five members including its Chair; the Chair will be
designated by the Executive Committee of the Bioengineering Division. The members of the
Medal Committee will be recommended to ASME/COH by the Bioengineering Division for three-
year terms, and there will ordinarily be a limit of two successive full terms. Members of the Medal
Committee will be selected from the pool of membership of the Bioengineering Division. It is
expected that after a few years of continuous operation, 1-2 new members will join the Medal
Committee every year.

The Chair of the Medal Committee will work with the staff members of ASME Committee on
Honors to determine the venue for award presentation and related ceremonies. This typically takes
place at the Division’s Summer Bioengineering Conference.

12. Frequency. Annual. However, the award will not be given if highly qualified nominees are
not available in a particular year in the judgment of the Savio L-Y. Woo Medal Committee.

13. Nomination Deadline. September 1 to the Savio L-Y. Woo Medal Committee. An exception
will made to this deadline in the anticipated inaugural year of the award (2015).
ASME Board of Governors  
Agenda Item  
Cover Memo

Date Submitted: May 18, 2015  
BOG Meeting Date: June 7, 2015

To: Board of Governors  
From: (Sector/Unit/Task Force/Other) Committee on Executive Director Evaluation and Staff Compensation (EDESC)  
Presented by: Madiha Kotb  
Agenda Title: By-Law Change to B5.2.5.2

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

The Committee on Executive Director Evaluation and Staff Compensation (EDESC) is recommending a change to its composition.

The committee is recommending the elimination of the member at-large position that serves a one year term. Whereas the benefit of an external member (other than a Board member, or member of the Presidential team) can be valuable, the one year term is too short and lengthening to 2 or 3 years will disrupt the cycle of appointments. Also, the outside member unfortunately, despite of their participation and contribution to the EDESC are not and cannot be present at the BOG when the EDESC recommendations are deliberated by the Board.

EDESC is also recommending a change to have the President be an ex officio member with vote, and the President nominee-elect to be an ex officio member without vote. The reasoning for recommending that the President becomes a voting member and that the President nominee/elect becomes a nonvoting member, is more in line with the philosophy used in general that the President nominee/elect might not have come out as a member of the BOG or the EDESC and in line with the philosophy that the first year is a year of transition and training.

Proposed motion for BOG Action: (if appropriate)

Revise By-Law B5.2.5.2 as attached

Attachments: Word document
EDESC Committee Membership

B5.2.5.2

The Committee 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), and one member-at-large who shall be an ASME member with the knowledge and expertise of Board Governance, Board Operations and Compensation Practices. 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 Managing Director, Human and Capital Resources, are not members of the Committee, they will be available to the Committee for consultation as needed.

The term of each of the current Board members at-large expires when his/her Board term expires. The term of the at-large member is for one year, based on an appointment by the President, is not eligible for reappointment and ends at the close of the second society-wide meeting, on a schedule established by the Committee on Executive Director Evaluation and Staff Compensation.
ASME Board of Governors
Agenda Item
Cover Memo

Date Submitted: May 20, 2015
BOG Meeting Date: June 7, 2015

To: Board of Governors
From: (Sector/Unit/Task Force/Other) COR
Presented by: Larry Luna
Agenda Title: Revisions to By-Laws B4.1, B4.2, B4.3, B5.1, B5.2, B5.3, B5.7, B5.8, B6.1, and B7.1

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

The Public Affairs and Outreach Council and the Student and Early Career Development Council request modifications to B5.3 and B5.7, respectively, to change the title of its vice president positions to board chairs. If approved, there will no longer be vice presidents in ASME.

These changes prompted other changes to be made in the following By-Laws:
B4.1 – Senior vice presidents are now addressed
B4.2 – The composition of the Nominating Committee
B4.3 – Senior vice presidents are now listed by title
B5.1 – All sectors now call their top unit a “council”
B5.2 – All sectors now call their top unit a “council”
B5.8 – All sectors now call their top unit a “council”
B6.1 – All sectors now call their top unit a “council”

The term “group” has been defined in By-Laws B5.1, B5.2, and B7.1.

Proposed motion for BOG Action: (if appropriate)

Revise By-Laws B4.1, B4.2, B4.3, B5.1, B5.2, B5.3, B5.7, B5.8, B6.1, and B7.1 as attached.

Attachments: Word documents
B4.1 GOVERNMENT

B4.1.1.1 The Society and its individual members shall be governed by this Constitution and these By-Laws and by the current Society Policies and procedures established by the Board of Governors, including any amendments that may be made from time to time.

B4.1.1.2 Notwithstanding any other provisions of these articles, the organization is organized exclusively for one or more of the purposes as specified in Section 501(c) 3 of the Internal Revenue Code of 1986, and shall not carry on any activities not permitted to be carried on by an organization exempt from Federal income tax under IRC 501(c) 3 or corresponding provisions of any subsequent Federal tax laws.

B4.1.2.1 Each unit of the Society may specify the requirements for a quorum of that unit in its By-laws, Rules and Procedures or Operation Guide. If no quorum requirements are specified a quorum shall be one half or more of the voting members of the unit.

B4.1.2.2 Every question which shall come before a meeting of any unit of the Society shall be decided by a majority of the votes cast, unless otherwise provided in the Constitution and By-Laws, by the Society Policies, or by the laws of the State of New York.

B4.1.3 The rules contained in the latest edition of Robert's Rules of Order Newly Revised shall govern the Society in all cases to which they are applicable, when not inconsistent with the Constitution or By-Laws of this Society.

B4.1.4.1 An Annual Report shall be prepared for the fiscal year ending on June 30.

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

B4.1.4.3 The material included in the portion of the report covering each fiscal year shall show the following in appropriate detail:

   a. The number of Society members at the beginning and end of the fiscal year and a statement of the place where the names and addresses of the members may be found;
   b. The assets and liabilities of the Society including trust funds, at the beginning and end of the fiscal year;
   c. The revenue or receipts of the Society, both unrestricted and restricted to particular purposes, during the fiscal year; and
   d. The expenses or disbursements of the Society for both general and restricted purposes during the fiscal year.
B4.1.4.4  The financial information described in B4.1.4.3 b, c, and d shall be verified by the President and the Treasurer, subject to completion of the annual audit by the outside auditors who are appointed by the Board of Governors and ratified by the membership at the first Business Meeting of each fiscal year.

B4.1.4.5  At the first Business Meeting of each fiscal year, the Annual Report, including the information described in B4.1.4.2 and B4.1.4.3, as verified according to B4.1.4.4, shall be presented by the Executive Director and Treasurer to the members assembled and made available to the membership. The Annual Report shall be filed with the records of the Society, and either a copy or an abstract thereof entered in the minutes of the proceedings of that Business Meeting.

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.

B4.1.6.1  If a nominee for the Board of Governors is unable to stand for election, the Nominating Committee shall recommend to the Board of Governors another nominee to fill the slate.

If a person elected to the Board of Governors is unable to take office, the Board of Governors shall fill the vacant position by appointment.

If a vacancy occurs on the Board of Governors after an elected Governor has been seated, the Board of Governors shall fill the vacancy by appointment for the unexpired portion of the term.

B4.1.6.2  In filling the office of President, the procedure shall be as follows: The most recent available past President shall act as President pro tern and shall call an executive session of the Board of Governors within one month after the vacancy in the Presidency occurs, at which session the Board of Governors shall elect a President to complete the unexpired portion of the presidential term. The new President shall be chosen from among those who are past Presidents, past or current senior vice presidents, or past or current members of the Board of Governors.
If for any reason the President-elect is unable to take office or the nominee for President is unable to stand for election, the Nominating Committee shall be convened immediately and select another nominee for the office of President.

Election of a new President-elect shall be by special ballot provided to each corporate member.

B4.1.6.3 If a nominee for vice president is unable to stand for election or if a senior vice president elect is unable to take office, the Nominating Committee shall recommend to the Board of Governors will appoint another nominee to fill the office by appointment. A replacement nominee shall be proposed to the Board of Governors in accordance with the procedures of each sector.

B4.1.6.4 Any vacancy in the office of senior vice president, Executive Director, Secretary, Treasurer, Assistant Secretary or Assistant Treasurer shall be filled by the Board of Governors.

If a senior vice president position becomes vacant during an incumbent's term of office, the Board of Governors shall fill the vacancy by appointment for the unexpired portion of the term. A replacement nominee shall be proposed to the Board of Governors in accordance with the procedures of each sector.

B4.1.7 An act of the Board of Governors which shall have received the expressed or implied sanction of the corporate membership at the following Business Meeting of the Society shall be deemed to be an act of the Society and cannot afterward be impeached by any member.

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. A vice president who has been elected to a term that does not extend more than one year into a new term of senior vice president of a sector is eligible to be appointed as a senior vice president.

B4.1.9 The Board of Governors may create such special committees as it may deem desirable. The members of such committees shall be appointed by the President with the consent of the Board. Special committees shall have only the powers specifically delegated to them by the Board. If a special committee shall include individuals who are not Governors, it is not a committee of the Board and may not bind the Board.

Each special committee shall serve at the pleasure of the Board. Any or all members of any committee may be removed, with or without cause, by resolution of the Board of Governors, adopted by a majority of the Board.

Any committee may adopt rules governing the method of calling and time and place of holding its meetings. Unless otherwise provided by the Board, a majority of any committee shall constitute a quorum for the transaction of business, and the act of a majority of the members of the committee present at a meeting at which a quorum is present shall be the act of the committee. Each committee shall keep a record of its acts and proceedings and shall report thereon to the Board whenever requested to do so.

Any action required or permitted to be taken by the Board or any special committee may be
taken without a meeting if all members of the Board or the committee consent in writing or by electronic mail to the adoption of a resolution authorizing the action. The resolution and the written consent thereto shall be filed with the minutes of the proceedings of the Board or the committee.

Any one or more members of the Board or any special committee may participate in a meeting of the Board or committee by means of a conference telephone, videoconference, or similar communications equipment, allowing all persons participating in the meeting to hear each other at the time, propose, object to and vote on specific actions to be taken by the Board or committee. Participating by such means shall constitute presence in person at the meeting. All members of the Board or any special committee must be given adequate prior notice about the arrangements for such meetings.

B4.1.10 The Board of Governors may delegate to the sectors and the standing committees of the Board as established in these By-Laws, for a period of one year, specific responsibilities for the management of one or more programs of the Society, subject to the supervision of the Board and to any limitation prescribed by the Board or by applicable law.

B4.1.11 Members in office shall continue in their respective offices until their successors have been elected or appointed, and have accepted their offices.
B4.2 NOMINATING COMMITTEE

B4.2.1 The Nominating Committee is charged with the responsibility of nominating members of experience, high standing, and active participation in the work of the Society to those offices specified in Article C4.1.8 of the Constitution. These nominees may be selected from proposals by various units or by individual members in the Society or from the Nominating Committee's own deliberations as it sees fit.

B4.2.2.1 Election to the Nominating Committee takes place at Business Meetings of the Society. At the second Business Meeting of the fiscal year, the President shall present the names of those recommended pursuant to By-Law B4.2.2.3, as applicable, for election to the Nominating Committee. In the event any vacancies occur following that meeting, the President may present the names of those recommended pursuant to By-Law B4.2.2.3, as applicable, for any Nominating Committee vacancies at the first Business Meeting of the new fiscal year. The voting members of the Nominating Committee shall be elected for two years and alternates for one year.

Elected voting members and alternates shall begin their terms at the close of the Business Meeting at which they are elected.

Terms of voting members and alternates will normally end at the close of the Nominating Committee Selection Meeting. However, if the work of a particular Nominating Committee is not finished by that time, terms of that committee will continue until the selection process for which that committee is responsible has been completed.

B4.2.2.2 The Nominating Committee shall consist of one voting member and an alternate selected by each unit of a sector, that is led by a Vice President. At the option of a sector, as described in the sector's Operation Guide, one additional alternate may be named by the Sector. In the event that a sector has only one Vice President, that sector may have two voting members and two alternates and may name one additional alternate as determined by the sector Operation Guide. The TEC Sector shall have seven voting members and seven alternates selected by the TEC Sector Council. The S&C Sector shall have five voting members and two alternates selected by the Council on Standards and Certification. The PAO Sector shall have three voting members and three alternates selected by the PAO Sector Council. The SECD Sector shall have two voting members and 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.
B4.2.2.3 Each sector will develop its own procedures for generating proposals for the members and alternates of the Nominating Committee for which that sector has a responsibility, and those procedures shall be specified in the sector operation guide.

B4.2.2.4 The Nominating Committee will be assisted by a non-voting group of Advisors consisting of three consenting and available past Presidents who have been out of office for one year or more. These Advisors, selected by the Nominating Committee, shall attend all meetings of the Nominating Committee and participate in all its discussions. At the option of the committee, they may also be present during the casting of votes for the slate of nominees. The functions of this group shall be:

a. to acquaint the Nominating Committee of the short and long range Society plans;

b. to make available their experience in, and their knowledge of the requirements for Society offices; and

c. to answer questions regarding the capabilities of potential nominees in relation to the needs and objectives of the Society.

B4.2.3.1 If a voting member is unable to serve, then an alternate will be identified by the unit from the sector from its pool of alternates. In the event that no alternates are available in a specific sector, an alternate may be selected by the unit from another sector pool of alternates in accordance with the Nominating Committee Manual, MM-10.

B4.2.3.2 A person who has been in office as voting member of the Nominating Committee for a term or portion of a term which includes more than one Nominating Committee Selection Meeting is eligible to be proposed for a later term as voting member or alternate only if the later term begins one year or more after the ending of the term in which the person served as a voting member.

B4.2.4 No voting member or alternate shall be considered for nomination to any elective office (President, and Governors and vice presidents) of the Society during a term of office on the Nominating Committee, whether or not it is served.

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 proposals 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.
B4.2.6  A vacancy in the Nominating Committee of the Society shall be filled as determined in accordance with B4.2.3.1 and B4.2.2.1.

B4.2.7  Each year, not later than December 1, the Nominating Committee shall submit any proposed changes to Manual MM-10 to the Committee on Organization and Rules for review and recommendation.

B4.2.8  A special nominating committee may be organized by one per cent of the corporate membership of the Society in good standing certifying to the Executive Director in writing their joint intention to organize such a committee.

B4.2.9  Within two weeks following the close of the second Business Meeting of the fiscal year, the Nominating Committee shall deliver to the Executive Director in writing the names of its nominees for the elective offices to be filled at the next election, together with the written consents of the nominees.

B4.2.10  The names of nominees for the various offices proposed by the Nominating Committee and any other special nominating committee shall be published by the Executive Director immediately after the receipt of the report of the Nominating Committee or the special nominating committee.

B4.2.11  Names of any nominees presented by any special nominating committee must be in the hands of the Executive Director by the first Tuesday in August of each year, and must be accompanied by the written consent of each nominee.

B4.2.12  Any member of the Society or any organized unit of the Society may propose and is encouraged to propose, directly to the Nominating Committee, nominees for President, vice-president, or the Board of Governors.
B4.3 OFFICERS

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.

B4.3.3 Each senior vice president shall have such powers and perform such duties as the Board of Governors may from time to time prescribe.

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.

B4.3.4.2 The Assistant Treasurer shall have charge of all funds and securities of the Society, shall endorse the same for deposit or collection when necessary and deposit the same to the credit of the Society in such banks or depositories as the Board of Governors may authorize. He or she may endorse all commercial documents requiring endorsements for or on behalf of the Society and may sign all receipts and vouchers for payments made to the Society. He or she shall have all such further powers and duties as generally are incident to the position of Assistant Treasurer or as may be assigned to him or her by the Treasurer or the Board of Governors. In the absence or inability to act of the Treasurer, the Assistant Treasurer may perform all the duties and exercise all the powers of the Treasurer. The performance of any such duty shall, in respect of any other person dealing with the Society, be conclusive evidence of his or her power to act. The Assistant Treasurer shall be an employee of the Society.
B4.3.5 The Executive Director shall be an employee and the chief operating Officer of the Society, an ex officio member of the Board of Governors without vote, and shall have such powers and perform such duties as the Board of Governors may from time to time prescribe.

B4.3.6.1 The Secretary shall have the responsibility for the records of the Society, and shall have such powers and perform such duties as the Board of Governors may from time to time prescribe. The Secretary shall supervise, review and audit the activities of the Assistant Secretary in carrying out the assigned duties as generally are incident to the position of Assistant Secretary or as may be otherwise assigned to him or her by the Secretary or the Board of Governors. The Secretary shall be a volunteer member of the Society.

B4.3.6.2 The Assistant Secretary shall have all such powers and duties as generally are incident to the position of Assistant Secretary or as may be assigned to him or her by the Secretary or by the Board of Governors. In the absence or inability to act of the Secretary, the Assistant Secretary may perform all the duties and exercise all the powers of the Secretary. The performance of any such duties shall, in respect of any other person dealing with the Society, be conclusive evidence of his or her power to act. The Assistant Secretary shall be an employee of the Society.

B4.3.7 The Executive Director shall receive a salary that shall be fixed by the Board of Governors.

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
Vice President for Engineering Education
Vice President for Global Outreach
Vice President for Government Relations
Vice President for Leadership and Recognition

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.
B5.1 SECTORS, BOARDS, COUNCILS, AND COMMITTEES, AND GROUPS

B5.1.1 Each sector will be led by a sector board or council.

B5.1.2 Subject to the approval of the Board of Governors, each sector shall have the power to establish its boards and committees.

B5.1.3 Each board or committee, as described in the By-Laws, shall perform the duties prescribed therein, and those assigned to it by the sector to which it reports.

B5.1.4 The primary role of volunteer members of boards and committees will be to determine policies, develop programs, conduct studies, prepare reports, and advise the sector to which that board or committee reports on matters pertaining to specific assignments.

B5.1.5 The primary role of staff assigned to boards and committees is to implement actions that are required to meet the objectives of the board or committee on a continuing basis. Working under broad lines of policy established by the board or committee, the staff will initiate programs, actively engage in the work, and make operating decisions necessary to carry forward the programs in a dynamic and efficient manner.

B5.1.6 A sector may terminate membership, other than ex officio membership, on any board or committee because of continued absence of the member.

B5.1.6.1 The Board of Governors shall appoint all members of the sector board or council except the elected vice presidents and members ex officio.

B5.1.6.2 Each sector board or council shall approve all appointments to boards and committees which report directly to that sector board or council.

B5.1.6.3 Any sector board or council or board may have standing or special committees to assist in the conduct of its affairs.

B5.1.6.4 Any sector board or council, board, or committee may have non-voting advisory members.

B5.1.6.5 Any committee may appoint subcommittees. To serve on a subcommittee it is not necessary to be a member of the parent committee.

B5.1.7 A member of a board or committee whose term of office has expired shall continue to serve until a successor has been elected or appointed unless the board or committee has been terminated.

B5.1.8 Periodically, throughout the fiscal year, each sector and each committee reporting to the Board of Governors shall submit to the Executive Director, for delivery to the Board of Governors a written report of its activities.

B5.1.9 ASME groups include technical divisions, institutes, affinity groups, sections, subsections, technical chapters, research committees and participant-created groups.
B5.2 SECTORS AND COMMITTEES REPORTING TO THE BOARD OF GOVERNORS

B5.2.1 The sectors reporting to the Board of Governors shall be the Standards and Certification Sector, Technical Events and Content Sector, the Public Affairs and Outreach Sector and the Student and Early Career Development Sector.

Each sector shall be led by a council, sector board or sector operating board. The Council, Sector Board, or Sector Operating Board of each sector shall consist of such voting members as specified in the sector By-Laws. Individuals, as may be required or designated pursuant to any statute, regulation, or court order or consent decree may also be voting or non-voting members of a sector Council, Sector Board or Sector Operating Board. A member of the senior staff of the sector, if any, may be a voting member of the sector Council, Sector Board or Sector Operating Board. The sector Council, Sector Board or Sector Operating Board may designate both volunteer and staff non-voting members.

The duties and responsibilities of the sectors shall be as designated from time to time by the Board of Governors. Each sector shall maintain its own operation guide as prescribed by Society Policy. Each sector shall be chaired by a senior vice president who shall serve a term of three years. Additional service as the same senior vice president may occur after an interruption of one or more years or following a partial term. Senior vice presidents shall attend meetings of the Board of Governors without vote.

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, Committee on Governance, Committee on Honors, and the Committee of Past Presidents. Each Standing Committee shall maintain its own operation guide as prescribed by Society Policy. If a Standing Committee includes individuals who are not Governors, it is not a committee of the Board and may not bind the Board; provided, however, that the 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 ensure 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 consist of a Chair, a Vice Chair and a membership as determined by the Board of Governors.

B5.2.4.1 The Committee on Finance and Investment, under the direction of the Board of Governors, shall supervise the financial and investment affairs of the Society, and shall support 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 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.

B5.2.5.1 The Committee on Executive Director Evaluation and Staff Compensation, under the direction of the Board of Governors, has 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; 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.

B5.2.5.2 The Committee shall consist of the President, the President-nominee/elect, the Immediate Past President, three current Board members at-large (serving staggered terms on the Board), and one member-at-large who shall be an ASME member with the knowledge and expertise of Board Governance, Board Operations and Compensation Practices. The President-nominee/elect and Immediate Past President are ex officio members of the committee with vote. The President 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 Managing Director, Human and Capital Resources, are not members of the Committee, they will be available to the Committee for consultation as needed.

The term of each of the current Board members at-large expires when his/her Board term expires. The term of the at-large member is for one year, based on an appointment by the President, is not eligible for reappointment and ends at the close of the second society-wide meeting, on a schedule established by the Committee on Executive Director Evaluation and Staff Compensation.

B5.2.6.1 The Pension Plan Trustees, under the direction of the Committee on Executive Director Evaluation and Staff Compensation, shall have responsibility, as specified in the American
Society of Mechanical Engineers Pension Plan, for the investment and ultimate distribution of the funds and may also act as Plan agent for the service of legal process.

The Pension Plan Trustees shall consist of up to seven members: the Treasurer of ASME; the Assistant Treasurer, and three to five at-large members recommended by the Committee on Executive Director Evaluation and Staff Compensation for appointment by the Board of Governors.

The terms of the at-large members shall be three years ending at the close of the second Society-Wide Meeting on a schedule established by the Committee on Executive Director Evaluation and Staff Compensation. Except as provided in this section, a Pension Plan Trustee who is a member-at-large may serve no more than two consecutive full terms. To be eligible for additional full terms, a member-at-large must be nominated by the Committee on Executive Director Evaluation and Staff Compensation upon a finding by the Committee that specifies exceptional circumstances warranting the additional terms, and a written statement of such findings must accompany the nomination when it is communicated to the Board of Governors by the Chair of the Committee. The nominee may then be appointed only upon the affirmative vote of two-thirds of the entire Board of Governors.

B5.2.7.1 The Committee on Governance (COG) under the direction of the Board of Governors, shall have the responsibility to identify and recommend appropriate training and orientation for members of the Board of Governors and to evaluate and recommend Board structures and processes that will encourage efficient and effective Board operation, governance, decision-making practices, and strategic management and planning.

B5.2.7.2 The COG membership will consist of the Immediate Past President and three governors appointed by the President, one from each governor term. The Senior Governor will serve as the Chair.

B5.2.8.1 The Committee on Honors, under the direction of the Board of Governors, shall recommend 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. The Committee on Honors shall consist of a Chair and Vice Chair and a membership as determined by the Board of Governors. The Chair of the General Awards Committee shall be an ex officio member with vote.

B5.2.8.2 The General Awards Committee, under the direction of the Committee on Honors, shall seek candidates for all honors and awards except Honorary Members, the ASME Medal, and group-division awards, and shall screen nominations and make recommendations to the Committee on Honors.

The General Awards Committee shall consist of a Chair, a Vice Chair and a membership as determined by the Committee on Honors.

B5.2.8.3 Other Society award committees, including special award committees, shall in accordance with the policies and procedures administered by the Committee on Honors,
seek nominees for honors in their several areas of interest, shall screen nominations, and make recommendations to the Committee on Honors.

B5.2.9.1 The Committee of Past Presidents, under the direction of the Board of Governors, shall elect Fellows, oversee the ethical practice of engineering, and provide guidance on matters where its experience may be useful, upon request by the President, Board of Governors, and other units of the Society.

The Committee shall consist of all living Past Presidents. The Officers of the Committee shall be the Chair, the Vice Chair, and the Secretary.

B5.2.10.1 The Audit Committee shall consist of a Chair, a Vice Chair and a voting membership as determined by the Board of Governors 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 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.

B5.2.10.2 The Audit Committee, under the direction of the Board of Governors, shall oversee 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.
B5.3 PUBLIC AFFAIRS AND OUTREACH SECTOR

B5.3.1.1 The Public Affairs and Outreach Sector, under the direction of the Board of Governors, is responsible for the coordinated outreach to industry, government, education, and the public. It is responsible for initiatives that address diversity and humanitarian programs. The Public Affairs and Outreach Sector will maintain a current Sector Operation Guide that will contain operational details of the Public Affairs and Outreach Sector that are not in these By-Laws.

B5.3.1.2 The Public Affairs and Outreach 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 Chair-Vice Presidents for the following Boards and Committees: Engineering Education Committee and Government Relations Committee and the Chairs of the following Committees: Industry Advisory Board; Engineering for Global Development Committee; Pre-College Education Committee; and Diversity and Inclusion Strategy Committee. The Managing Director, Government Relations and Engineering Education, is a non-voting member.

B5.3.1.3 The incoming Senior Vice President, Public Affairs and Outreach shall be nominated by the Public Affairs and Outreach Council from among its past or present volunteer members for appointment by the Board of Governors for a term of three years. In the event that a past or present volunteer member is not available from the Public Affairs and Outreach Council, then the Council shall defer to the Board of Governors for the selection. Chairs-Vice Presidents who have been elected to a term that extends more than one year into a new term of the Senior Vice President of Public Affairs and Outreach are not eligible to become the Senior Vice President.

B5.3.1.4 The members-at-large shall be appointed by the Board of Governors, as recommended by the Public Affairs and Outreach Council. The term of the members-at-large shall be one year and they may be re-appointed for up to three terms.

B5.3.2.1 The following Boards and Committees will report directly to the Public Affairs and Outreach Council: Board on the Engineering Education Committee and Board on the Government Relations Committee, the Industry Advisory Board, the Engineering for Global Development Committee, the Pre-College Education Committee, and the Diversity and Inclusion Strategy Committee.

B5.3.2.2 The Board on Engineering Education Committee, under the direction of the Public Affairs and Outreach Council, is responsible for the activities of the Society that relate to engineering education. The Committee Board shall consist of a Chair-Vice President, Engineering Education as Chair and a membership as determined by the Public Affairs and Outreach Council.

B5.3.2.3 The Board on Government Relations Committee, under the direction of the Public Affairs and Outreach Council, is responsible for the development of programs for interaction between the Society and government at all levels. The Committee Board
shall consist of a Chair, Vice President, Government Relations, as Chair, and a membership as determined by the Public Affairs and Outreach Council. The Board on Government Relations Committee shall recommend policies and procedures, and supervise activities that involve Society interaction with government entities.

B5.3.3.1 The following committees shall report directly to the Public Affairs and Outreach Council: Industry Advisory Board, Engineering for Global Development Committee, Pre-College Education Committee, and Diversity and Inclusion Strategy Committee.

B5.3.2.4 The Industry Advisory Board, under the direction of the Public Affairs and Outreach Council, is responsible for providing a voice for industry within ASME through the communication and advocacy of industry needs. The Industry Advisory Board shall consist of a Chair and Vice Chair, appointed by the Senior Vice President of the Public Affairs and Outreach Council and a membership, as determined by the Public Affairs and Outreach Council.

B5.3.2.5 The Engineering for Global Development Committee, under the direction of the Public Affairs and Outreach Council, shall be responsible for the collaboration among the engineering and global development stakeholders to create avenues and opportunities within ASME and mechanical engineering around the world to meet the challenges faced by under-served communities. The Committee shall consist of a Chair, appointed by the Senior Vice President, Public Affairs and Outreach, and a membership, as determined by the Public Affairs and Outreach Council.

B5.3.2.6 The Pre-College Education Committee, under the direction of the Public Affairs and Outreach Council, shall be responsible for educational activities aimed at enhancing pre-college science, technology, engineering, and mathematics education. The Committee shall consist of a Chair, appointed by the Senior Vice President, Public Affairs and Outreach, and a membership, as determined by the Public Affairs and Outreach Council.

B5.3.2.7 The Diversity and Inclusion Strategy Committee, under the direction of the Public Affairs and Outreach Council, shall provide insight and advice into promoting diversity within ASME and mechanical engineering. The Committee will consist of a Chair, appointed by the Senior Vice President, Public Affairs and Outreach and a membership, as determined by the Public Affairs and Outreach Council.
B5.7 STUDENT AND EARLY CAREER DEVELOPMENT SECTOR

B5.7.1.1 The Student and Early Career Development Sector, under the direction of the Board of Governors, is responsible for meeting the needs and providing a voice for students and early career engineers. The Student and Early Career Development Sector will maintain a current Sector Operation Guide that will contain operational details of the Student and Early Career Development Sector that are not in these By-Laws.

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; one member-at-large; the Vice President for the Board on Leadership and Recognition; the Board and the Chairs of the following: Board on Career Development, Board on Leadership and Recognition, and Board on Student Programs; and the Chairs of the following: Committee on Collaboration; Committee on Global Perspective; and the Committee on Communication and Marketing. The Director, Student and Early Career Development is a non-voting member.

B5.7.1.3 The incoming Senior Vice President, Student and Early Career Development shall be nominated by the Student and Early Career Development Council from among its past or present volunteer members for appointment by the Board of Governors for a term of three years. In the event that a past or present volunteer member is not available from the Student and Early Career Development Council, then the Council shall defer to the Board of Governors for the selection. ChairsVice Presidents who have been elected to a term that extends more than one year into a new term of the Senior Vice President of the Student and Early Career Development are not eligible to become the Senior Vice President.

B5.7.1.4 The member-at-large shall be appointed by the Board of Governors, upon a recommendation of the Student and Early Career Development Council. The term of the member-at-large shall be one year.

B5.7.2.1 The following Boards will report directly to the Student and Early Career Development Council: the Board on Career Development; the Board on Student Programs; and the Board on Leadership and Recognition.

B5.7.2.2 The Board on Career Development, under the direction of the Student and Early Career Development Council, is responsible for the activities of the Society that relate to career development of early career engineers. The Board shall consist of a Board Chair, appointed by the Senior Vice President and a membership as determined by the Student and Early Career Development Council.

B5.7.2.3 The Board on Student Programs, under the direction of the Student and Early Career Development Council, is responsible for development of programs for students. The Board shall consist of a Board Chair, appointed by the Senior Vice President and a membership as determined by the Student and Early Career Development Council.

B5.7.2.4 The Board on Leadership and Recognition, under the direction of the Student and Early Career Development Council, is responsible for activities of the Society that
relate to the leadership and recognition of students and early career engineers. The Board shall consist of a Chair, as Leadership and Recognition as Chair and a membership as determined by the Student and Early Career Development Council.

B5.7.3.1 The following committees shall report directly to the Student and Early Career Development Council: the Committee on Collaboration; the Committee on Global Perspective and the Committee on Communication and Marketing.

B5.7.3.2 The Committee on Collaboration, under the direction of the Student and Early Career Development Council, is responsible for building the right partnerships with local schools and organizations to sponsor and grow new programs. The Committee on Collaboration will consist of a Chair, appointed by the Senior Vice President, Student and Early Career Development and a membership, as determined by the Student and Early Career Development Council.

B5.7.3.3 The Committee on Global Perspective, under the direction of the Student and Early Career Development Council, shall provide insight on the development of programs for students and early career engineers globally that further ASME strategic objectives. The Committee will consist of a Chair, appointed by the Senior Vice President, Student and Early Career Development and a membership, as determined by the Student and Early Career Development Council.

B5.7.3.4 The Committee on Communication and Marketing, under the direction of the Student and Early Career Development Council, shall influence consistent marketing and communication messages and effective delivery channels for the programs serving students and early career engineers. The Committee will consist of a Chair, appointed by the Senior Vice President, Student and Early Career Development and a membership, as determined by the Student and Early Career Development Council.
B5.8 SOCIETY REPRESENTATION

B5.8.1 The Board of Governors or a sector council, sector board or sector operating board may appoint a member or members of the Society to represent it at meetings of societies of kindred aim or at public functions. If time does not permit action by the Board of Governors or by a sector council, sector board, or sector operating board, such appointment may be made by the President or by the chair of a sector.

B5.8.2 The Board of Governors may appoint a member or members of the Society to represent the Society on committees organized by other societies, Government departments, or other groups.

B5.8.3 The Board of Governors may appoint such a number of members of the Society to represent the Society on Boards of award of any joint activity recognized by the Board of Governors, as may be required by the by-laws of those activities.

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.

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.
B6.1 MEETINGS OF THE SOCIETY

B6.1.1 All meetings of the Society primarily for the presentation and discussion of technical papers shall be under the direction of the sector Council, Sector Board or Sector Operating Board of one or more of the sectors as appropriate.

B6.1.2 A notice of each Business Meeting shall be given by the Executive Director to each member either by written communication or other announcement. If such notice is given personally, by first class mail or electronic mail it shall be given not less than 10 nor more than 50 days before the date of the meeting. If the notice is mailed by any other class of mail it shall be given not less than 30 nor more than 60 days before such date.

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.
B7.1 PUBLICATIONS AND PAPERS

B7.1.1 The Technical Committee on Publications and Communications is responsible for publications of the Society, except that the Standards and Certification Sector shall be in charge of codes and standards.

B7.1.2 The publications of the Society shall consist of:
   a. The Society’s journals, also known as The TRANSACTIONS OF THE ASME;
   b. MECHANICAL ENGINEERING; and
   c. Such other publications as may be authorized by the sector within the limitations of the budget.

B7.1.3 The Society shall not be responsible for statements or opinions advanced in papers or in discussion at meetings of the Society or of its technical divisions or sections, or printed in its publications.

B7.1.4 No substantial part of the activities of the organization shall be carrying on propaganda, or otherwise attempting to influence legislation (except as otherwise provided by Internal Revenue Code (IRC) 501(h)), and does not participate in, or intervene in (including the publication or distribution of statements), any political campaign on behalf of any candidates for public office.

B7.1.5 The Society reserves the right to copyright any of its papers, discussions, reports, or publications.