



Two Park Avenue
New York, NY
10016-5990 U.S.A.

tel 1.212.591.7000
fax 1.212.591.7674
www.asme.org

**DRAFT AGENDA – OPEN SESSION
2021-2022 BOARD OF GOVERNORS MEETING**

**Sunday, November 14, 2021
12:30 pm to 2:30 pm (EST)**

1. Opening of the Meeting (Start Time 12:30 pm)

- 1.1. Call to Order
Mahantesh Hiremath
- 1.2. Adoption of the Agenda ACTION
- 1.3. President's Remarks (10 minutes) DISCUSSION
Mahantesh Hiremath
- 1.4. Executive Director/CEO's Remarks (10 minutes) DISCUSSION
Tom Costabile
- 1.5. Consent Items for Action ACTION

Identification of items to be removed from Consent Agenda

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

- 1.5.1. Approval of Minutes of October 6, 2021
- 1.5.2. ASME Foundation Donation

2. Open Session Agenda Items

- 2.1. Financial Update (10 minutes) INFORMATION
Bill Garofalo
- 2.2. ASME Programs Update on HBCU & Community College Pilots ACTION
Kathleen Lobb and Anand Sethupathy (30 minutes)
- 2.3. Committee on Finance (15 minutes) INFORMATION
John Goossen and Bill Garofalo
- 2.4. Secretary-Treasurer Nominee 2022-2025 (10 minutes) ACTION
Mahantesh Hiremath
- 2.5. ASME Strategy Update (15 minutes) INFORMATION
Michael Johnson
- 2.6. ASME Constitution & By-Laws (10 minutes) INFORMATION
Mahantesh Hiremath

- 2.7. Board Liaison Report (5 minutes) INFORMATION
 Committee on Organization & Rules – Rick Marboe
- 2.8. TEC Senior Vice President Candidates (5 minutes) INFORMATION
 George Papadopoulos

3. New Business

4. Open Session Information Items

- 4.1. Committee and Sector Reports
 - 4.1.1. Committee of Past Presidents
 - 4.1.2. Committee on Honors
 - 4.1.3. Technical and Engineering Communities Sector
 - 4.1.4. Student & Early Career Development Sector
 - 4.1.5. Diversity, Equity & Inclusion Strategy Committee
 - 4.1.6. VOLT Academy
 - 4.1.7. Industry Advisory Board
 - 4.1.8. Council on Standards & Certification
 - 4.1.9. Public Affairs & Outreach Sector
 - 4.1.10. Member Development and Engagement Sector
 - 4.1.11. Committee on Organization & Rules
 - 4.1.12. ASME Auxiliary
 - 4.1.13. Philanthropy Committee

4.2. Dates of Future Meetings

DATE	DAY	TIME	LOCATION
February 16, 2022	Wednesday	1:00 pm – 3:00 pm EST	Video Conference
April 19, 2022	Tuesday	1:00 pm – 4:00 pm EDT	Video Conference
June 19, 2022	Sunday	TBD	Scottsdale, AZ
June 21, 2022	Tuesday	TBD	Scottsdale, AZ

5. Adjournment – Open Session

List of Appendices

- 2.2. ASME Programs Update on HBCU & Community College Pilots
- 2.3. Committee on Finance
- 2.4. Secretary-Treasurer Nominee 2022-2025
- 2.7. Board Liaison Report – Committee on Organization & Rules
- 2.8. TEC Senior Vice President Candidates
- 4.1.1. Committee of Past Presidents
- 4.1.2. Committee on Honors
- 4.1.3. Technical and Engineering Communities Sector
- 4.1.4. Student & Early Career Development Sector

- 4.1.5. Diversity, Equity & Inclusion Strategy Committee
- 4.1.6. VOLT Academy
- 4.1.7. Industry Advisory Board
- 4.1.8. Council on Standards & Certification
- 4.1.9. Public Affairs & Outreach Sector
- 4.1.10. Member Development and Engagement Sector
- 4.1.11. Committee on Organization & Rules
- 4.1.12. ASME Auxiliary
- 4.1.13. Philanthropy Committee



Board of Governors Meeting Agenda Item Cover Memo

Date Submitted:	October 22, 2021
BOG Meeting Date:	November 14, 2021
To:	Board of Governors
From:	ASME Philanthropy Committee
Presented by:	Kathleen Lobb, Managing Director of ASME Philanthropy & Executive Director of ASME Foundation
Agenda Title:	Donation to ASME Foundation Campaign for Next Generation Engineers

Agenda Item Executive Summary:

On October 14, 2021, the ASME Board of Governors resolved that a grant in the amount of five million dollars (\$5,000,000.00) shall be awarded to the ASME Foundation in support of the Campaign for Next Generation Engineers. A donation of \$2,000,000 of the \$5,000,000 commitment is requested to be executed in November of 2021.

Proposed motion for BOG Action:

Whereas the Board of Governors in support of its five-million-dollar (\$5,000,000.00) commitment to the ASME Foundation Campaign for Next Generation Engineers, approves the donation of two million dollars (\$2,000,000.00) to the ASME Foundation Campaign for Next Generation Engineers in November of 2021.

Attachment(s):

None



Board of Governors Meeting Agenda Item Cover Memo

Date Submitted:	October 15, 2021
BOG Meeting Date:	November 14, 2021
To:	Board of Governors
From:	Anand Sethupathy, Managing Director, Strategy & Programs
Presented by:	Anand Sethupathy, Managing Director, Strategy & Programs Kathleen Lobb, Managing Director, Philanthropy and Executive Director of ASME Foundation Dr. Ashley Huderson, Director, Engineering Education and Outreach
Agenda Title:	ASME Programs Update on HBCU & Community College Pilots

Agenda Item Executive Summary:

ASME is embarking on focused programmatic efforts to increase our engagement with Historically Black Colleges & Universities (HBCUs) and Community Colleges. This will be an update on the program and its future potential.

Proposed motion for BOG Action:

Whereas, the ASME Board of Governors requests the sum of \$250,000 from the ASME Foundation to be used to fund several pilot programs for HBCU's and Community Colleges as detailed in the presentation. (Identified as 2.2 on the Board agenda.)

Attachment(s):

PowerPoint Presentation

Community College & HBCU Pilot Programs

*ASME's Groundbreaking initiative to attract, develop
and grow the technical workforce of the future*

November 2021

Update for Board of Governors

What to Expect From This Presentation

- **Brief Description**

Update on ASME Programs piloting engagement models with HBCUs and Community Colleges

- **Desired Outcomes**

To provide information on the initiative and solicit feedback from the BOG

- **Questions**

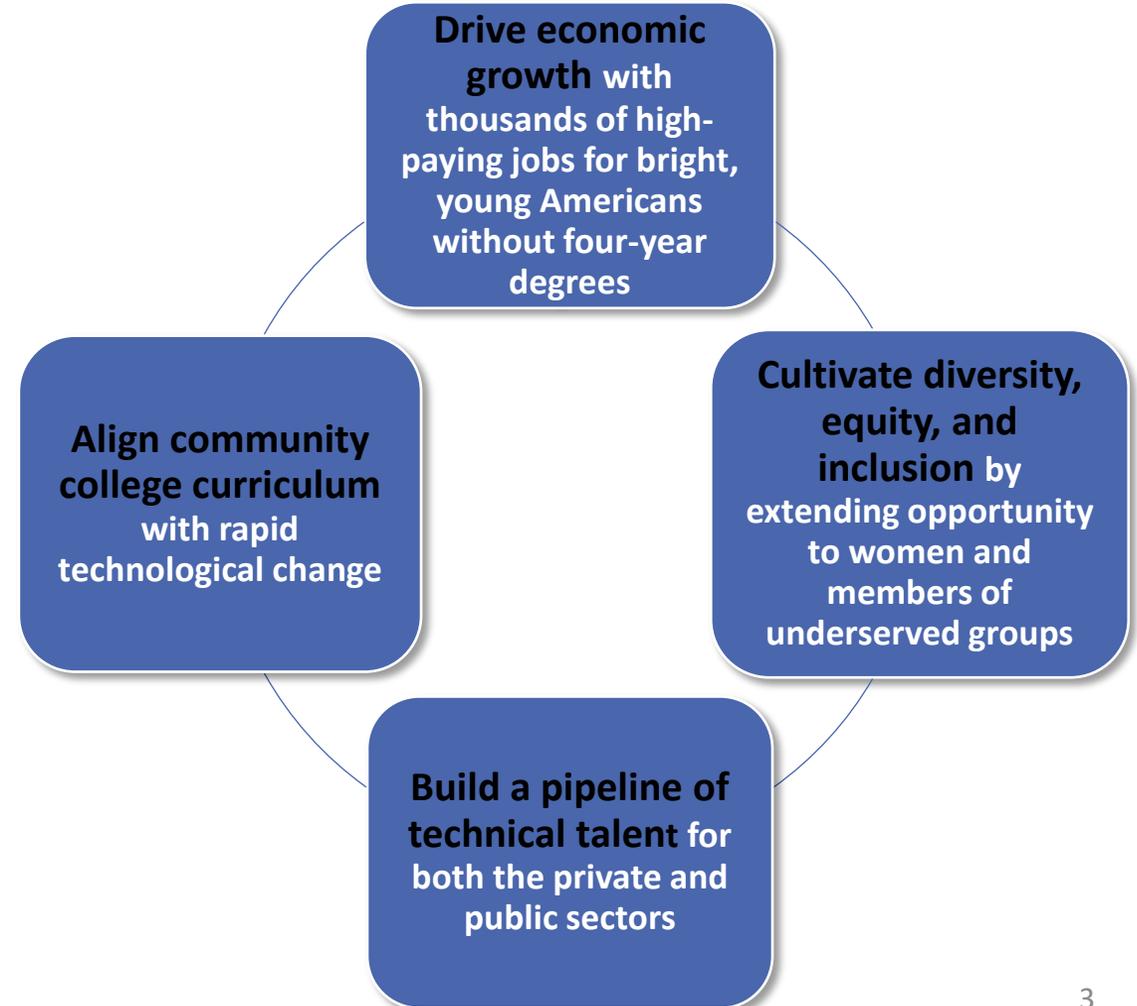
Please ask only clarifying questions during the presentation

- **Duration**

20 Minutes of Presentation; 10 Minutes of Q&A

Community College and HBCU Pilot Programs

Multichannel program creates new two-year and non-traditional pathways leading to skilled technical roles



Why Community Colleges?

These valued institutions have the potential to attract, support and inspire the broadest and most diverse next generation of engineering professionals

- Over 1,000 community colleges nationwide
- More accessible entrance requirements
- Free or low-cost tuition
- Flexible training schedules (65% of students attend part-time)
- Broad range of technical and vocational training choices

At the same time, community colleges and their students most need our help

- Faculty requesting access and insight to the most market-relevant curriculum
- Career-development resources are very limited
- Relationships between national employers and community colleges need to be more developed

Description of Community College Pilot Program

Description:

ASME has a strong foothold in 4-year schools with ME degree programs with hundreds of student sections around the world. ASME is seeking to extend its reach to include community colleges with MET or related degree programs. Through the Pilot Program we are seeking to understand if our current offerings to institutions, faculty and students translate effectively to a community college context and we are seeking feedback on how we may need to adapt them.

Target for Pilot Program:

6 US-Based community colleges engaged over the course of AY '21-'22.

Longer Term Goals:

ASME is seeking to test, iterate and expand a scalable and financially sustainable Community College program. Our goal is to learn from the pilot experience and work toward crafting an engagement model that can reach 80+ community colleges and 3,000+ community college students per year within the next 5 years.

Why HBCUs?

These valued institutions have the potential to attract, support and inspire the broadest and most diverse next generation of engineering professionals

- Over 90 HBCUs nationwide
- HBCUs will serve as a pilot for the broader MSI group
- Over 200 HSI's in the US
- Starting with a focus on colleges with strong engineering programs
- Broad range of degrees and majors

At the same time, HBCUs
and their students most need our help

- Faculty are spread thin and have limited resources and would greatly value having the ASME network engaged on campus
- Career-development resources are very limited at some colleges
- Relationships between national employers and HBCUs need to be more developed

Description of HBCU Pilot Program

Description:

ASME has some existing HBCU student sections at Howard University and Prairie View A&M. Through the Pilot Program we are seeking to understand if our current offerings to institutions, faculty and students translate effectively to a HBCU/MSI context and we are seeking feedback on how we may need to adapt them.

Target for Pilot Program:

3 HBCUs engaged over the course of AY '21-'22.

Longer Term Goals:

ASME is seeking to test, iterate and expand a scalable and financially sustainable HBCU and MSI program. Our goal is to learn from the pilot experience and work toward crafting an engagement model that can reach 35+ MSIs and 1,500+ MSI students per year within the next 5 years.

Participating in the Pilot Program

- Academic institution signs up for the pilot
- Nominate an Advisory Council member (often faculty, but can also be administration)
 - Nominee will lead the Pilot at the community college / HBCU Level
 - Pilot will focus on three areas (Institution Value, Faculty Value and Student Value)
- Form a Student Section at the community college
- Participate in Monthly Debrief Sessions
- Learn about current ASME offerings and select the ones that add greatest value for constituents
- Detailed findings throughout and final recommendations at the end of the Academic Year

Benefits

Colleges

- Industry connections
- Employment connections
- Networks

Faculty

- Community
- Networking
- Professional development
- Industry access
- Guest lectures
- Competitions

Students

- Jobs & internships
- Career readiness
- Scholarships
- Competitions
- Conferences & events
- Technical Skills
- Community
- Networking/Peer community

Employers

- Access to a better-trained, more diverse workforce
- Employee engagement and volunteering opportunities
- Community engagement

Everyone

- Cultivate diversity, equity and inclusion in engineering-related fields
- Contribute to economic development of local communities

Pilot – Community Colleges and HBCUs

Community College

VALENCIA COLLEGE

NEW YORK CITY COLLEGE OF TECHNOLOGY
CITY TECH

DALLAS COLLEGE

COLLEGE of
SAN MATEO

RED ROCKS
COMMUNITY COLLEGE

NIAGARA COUNTY
COMMUNITY COLLEGE
NCCC
STATE UNIVERSITY
OF NEW YORK

HBCU



UNIVERSITY OF THE
DISTRICT OF
COLUMBIA
1851

TENNESSEE
STATE UNIVERSITY

Potential Impact of 5 Year Program

Estimated Reach

	FY22	FY23	FY24	FY25	FY26
Community College Variables					
# of Community Colleges	5	10	20	40	80
Community College Student Section Advisors	5	10	20	40	80
Students per Community College Section	20	25	30	35	40
Community College Student Members	100	250	600	1,400	3,200
HBCU & MSI Variables					
HBCUs & MSIs	3	6	12	24	36
HBCU/MSI Student Section Advisors	3	6	12	24	36
Students per HBCU/MSI	20	25	30	35	40
HBCU/MSI College Student Members	60	150	360	840	1,440
TOTAL INSTITUTIONS ENGAGED	8	16	32	64	116
TOTAL STUDENT ADVISORS ENGAGED	8	16	32	64	116
TOTAL STUDENTS	160	400	960	2,240	4,640

Estimated Diversity Impact

3,000 to 6,000 underrepresented members added to US membership with a strong connection to ASME. Does not include gains we make at existing 4-year schools.

Programs Leveraged

- Student Sections
- Faculty Committees
- Career Engagement Center
- E-Fest/EFx
- Membership
- Scholarships
- Conferences (SLTC, IMECE)
- IAB

Pilot Program Timeline

Select Pilot Orgs

- Outreach to 20+ Community Colleges & HBCUs
- Identify 6 Community Colleges and 3 HBCUs that can commit to the pilot



July/August

LAUNCH!

- Official launch of program
- Market Student Sections and Attract at Least 20 students into each section
- Faculty leads meet on a monthly basis to share what is and isn't working



Dec - May

Report

Present findings of the Pilot and recommendations to the ASME Board of Governors.

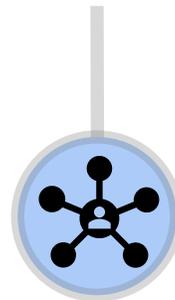
June/July



Marketing/Outreach

- Secure Faculty and Admin Lead from each College
- Work with Community College Leads to setup Student Sections

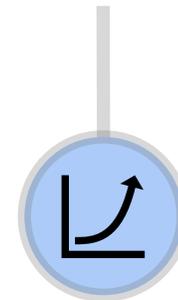
Sept - Dec



Adapt & Test

- Based on faculty and student feedback, adapt elements of the program
- Continue to collect feedback and test engagement

June



Program Financials & Future Direction

Now

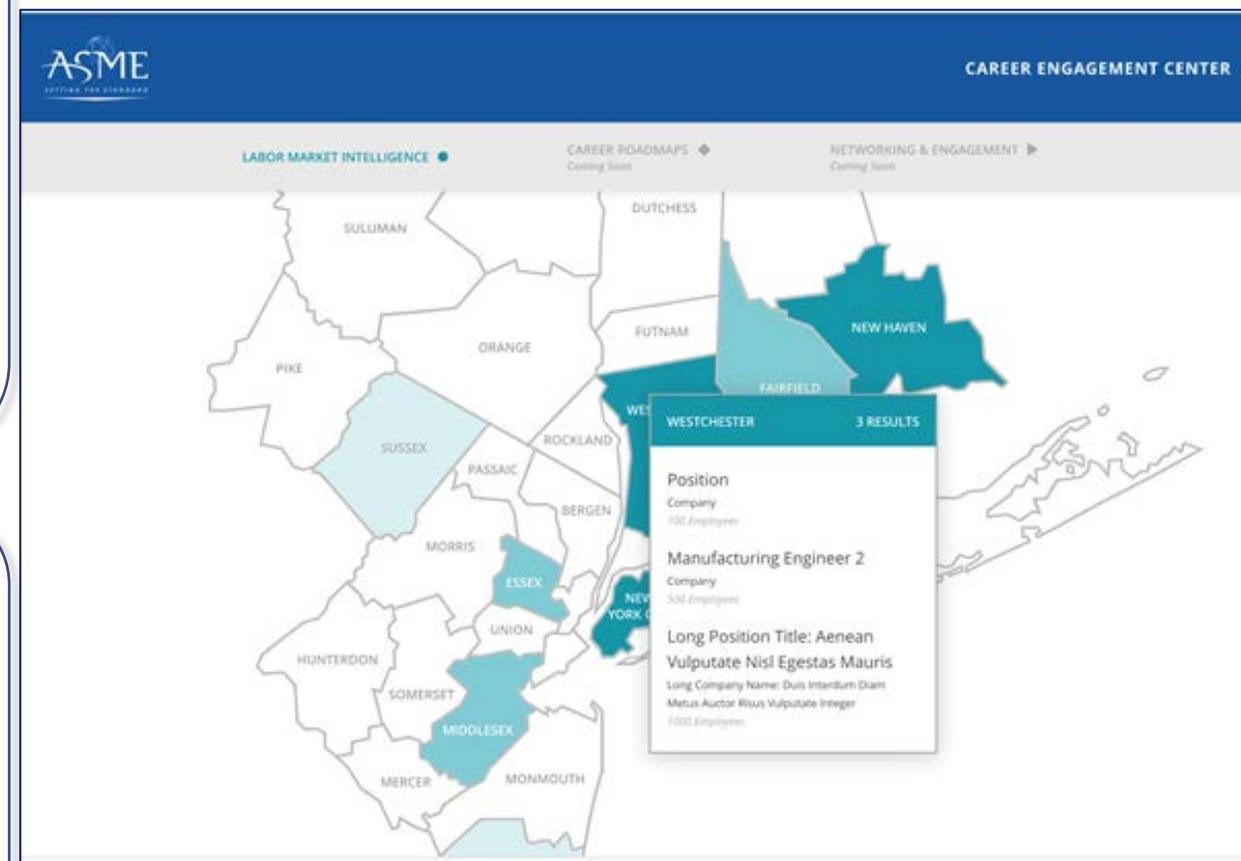
HBCU & Community College

- FY22 Program Costs: \$250K
- FY23-FY25: TBD
 - Derive based on learnings from pilot
 - Parallel development of fundraising pipeline

Upcoming

Career Engagement Center

- Alpha Launch on Nov. 13th during E-Fest Careers
- Future ask for development acceleration



Motion

Whereas, the ASME Board of Governors requests the sum of \$250,000 from the ASME Foundation to be used to fund several pilot programs for HBCU's and Community Colleges as detailed in the presentation.



Board of Governors Meeting Agenda Item Cover Memo

Date Submitted:	October 18, 2021
BOG Meeting Date:	November 14, 2021
To:	Board of Governors
From:	John Goossen and Bill Garofalo
Presented by:	John Goossen and Bill Garofalo
Agenda Title:	Committee on Finance

Agenda Item Executive Summary:

Update the BOG on the current and future state of the Committee on Finance.

Proposed motion for BOG Action:

None

Attachment(s): PowerPoint presentation

PowerPoint Presentation

Committee on Finance

Board of Governors
November 14, 2021

Committee on Finance (COF)

- Chair – John Goossen
- Vice Chair – Rob Pangborn (ex-officio, ASME Secretary/Treasurer)
- Member - Richard Benson

- Chief Financial Officer – Bill Garofalo (ex-officio)

Financial Oversight

- ASME Monthly Operation results, released monthly 7th - 9th , will be shared with COF:
 - COF members will review and provide any comments by email to Bill Garofalo
 - A conference call (with the appropriate individuals) will only be established if there are questions on the report or an issue that requires a more detailed discussion
- COF will continue to receive the monthly investment results provided by Bill Lowery
- COF will be invited to quarterly Executive Committee meetings for a 1/2 to 3/4 hours, for updates, reviews and discussions on predetermined items:
 - Bill Lowery will be invited to the call to discuss the markets and the investment results
 - Meeting schedule issued to COF when available
- Three yearly meetings will be held with COF, Tom Costabile, Bill Garofalo, Michael Johnson and Jeff Patterson (others as needed) to review and discuss selected strategic and operational items:
 - January/February – Review 6-month results, new initiatives and operation/strategy changes
 - April/May – Review 9-month results and the draft annual budget for the next fiscal year
 - September – Review fiscal year June 30 results and potential impact on current fiscal year

COF Transition Year Objectives

- Update COF Operating Guide, including defining roles and responsibilities, based on the needs of ASME for an independent review group
- Define COF membership:
 - Number of COF members (e.g. 4) plus a BOG liaison and the Secretary/Treasurer
 - Define qualifications for membership
 - Consider members that could be future BOG candidates
 - Potential COF Chair
- Work with Tom Costabile, Bill Garofalo and Michael Johnson to establish the Investment Advisory Panel (IAP) and formalize:
 - Roles and responsibilities
 - Qualifications for membership
 - COF and the Executive Committee interface with the IAP
 - Bill Lowery's (and his Group's) involvement going forward

Timeline*

- Define future COF role Feb 16th 2022
- Define COF membership
 - Number of COF members and qualifications Feb 16th 2022
 - Finalize COF members in time for May budget review April 19th 2022
- Update Operating Guide
 - Final ready for review by COR April, 2022
- Establish the Investment Advisory Panel (IAP):
 - Number of IAP members and qualifications Feb 16th 2022
 - Formalize COF/Executive Committee interface with the IAP April 19th 2022
 - Finalize IAP members June 19th 2022
 - Bill Lowery's (and his Group's) involvement September, 2022

* Dates Align with BOG meeting dates

**ASME Board of Governors
Agenda Item
Cover Memo**

Date Submitted: October 15, 2021
BOG Meeting Date: November 14, 2021

To: Board of Governors
From: Mahantesh Hiremath
Presented by: Mahantesh Hiremath
Agenda Title: Secretary-Treasurer Nominee 2022-2025

Agenda Item Executive Summary:

The BOG Operation Guide states that ASME Secretary-Treasurer Nominee is selected during the International Mechanical Engineering Congress and Exposition (IMECE) just prior to the expiration of the three-year term of the incumbent Secretary-Treasurer.

Proposed motion for BOG Action:

To accept the nomination of John Goossen as Secretary-Treasurer for June 2022 through June 2025.

Attachments:

John E. Goossen
2050 St Anne Common
North Huntingdon, Pa 15642
(Cell Phone) 412-260-1899
E-mail: goosseje@yahoo.com

Industry Experience

John Goossen was Vice President of Westinghouse Innovation Hub and SMR (Small Modular Reactor) Development with more than 36 years' experience in the nuclear industry, covering areas of engineering, manufacturing, plant design and analysis, marketing, business development, strategic planning, R&D and partnering with others.

He acquired knowledge, experience and leadership skills in various levels of professional technical positions and management over his career. His career started with 15 years in engineering covering almost all areas of nuclear reactor design ranging from new plant development and support of operating nuclear plants. During this period, he was assigned technical lead for many major nuclear plant service issues. His technical and leadership skills were enhanced through these early career experiences which provided a strong basis for increasing levels of management.

He moved from engineering to strategic marketing, manager of engineering marketing and manager of strategic planning for Westinghouse's Nuclear Services Business Unit. In these functions he built key skills in business planning and strategy, which were used to help direct new product development and company growth activities, such as partnering with outside organizations

His combination of technical leadership skills and business development experience led him to the position of Director of the central Science and Technology Department, whose role was to provide leadership for Westinghouse global technology strategy and development.

After 12 years leading the Science and Technology Department, he was promoted to Vice President of Westinghouse innovation hub and SMR development. He retired from this position in 2013.

Description of Westinghouse Positions

Vice President, Westinghouse Innovation Hub and SMR Development -2011 to 2013

John left Westinghouse as a Vice President in charge of leading the Westinghouse Small Modular Reactor (SMR) project organization which was responsible for the development, testing, licensing and eventual commercialization of the next

generation small nuclear reactor. The estimated development budget was over \$1 billion dollars, supporting a core and matrix organization, covering almost every Westinghouse function, including outside contractors. John was the lead negotiator with China on developing a teaming arrangement to cost share and jointly develop the SMR design. He led the proposal effort for DOE funding (est. \$250M) to further support this effort. He also finalized an arrangement with a major utility to support development and provide the first SMR site, which is required for the NRC licensing process. The Westinghouse effort on the SMR has since slowed due to the current global nuclear power environment. He also had continued responsibility for Westinghouse's innovation activities and the company wide technology recognition program which included the Lifetime Achievement Award, he initiated in 2001.

Director, Westinghouse Science and Technology Department – 1999 to 2011

John was responsible for the operations of Westinghouse's central research and development organization, which includes advanced modeling, advanced reactor design, extensive material testing and Hot Cell facilities. Previously the R&D organization was supported through corporate funding and allowed to function independent of the needs of the business units. John was responsible for consolidating the operations, restructuring the organization and reducing the need for any corporate funding.

Through restructuring efforts, the department scientists and engineers were motivated to seek work that directly supported the current and future needs of the company. Revenue and budget goals were achieved after the first year with 70% coming from direct support of Westinghouse business units and 30% through external sources, e.g. DOE and EPRI. Department productivity rose from 60% to over 86% under John's leadership. Given the demographics of the group this was close to the maximum achievable limit for performance.

John was responsible for building relationships and providing Westinghouse executive interface with International and National Laboratories, universities and EPRI. He developed procedures and policies that repaired strained working relationships with EPRI. He also worked with the DOE on nuclear energy initiatives (e.g. proposals on space nuclear propulsion, nuclear fuel recycling, and life beyond 60 for nuclear plants) and the NRC on the licensing of advanced plant designs. John was selected by DOE to represent the US on the International Generation IV Senior Industry Advisory Panel (SIAP).

In this position John chaired the Westinghouse Technology & Engineering Forum, which provides oversight and direction for all technology and product development in Westinghouse. He was also responsible for leading the Company Innovation Program, which promotes and nurtures long-term technology development. Advancements such as the grid appropriate reactor (IRIS), Silicon Carbide fuel cladding and the enhanced hybrid hydrogen process were all developed at the

Westinghouse Science and Technology Department under John's leadership. He was also assigned technology integration lead with Westinghouse's parent companies, British Nuclear Fuel (BNFL) (1999 to 2006) and Toshiba (2006-2013)

Additional Responsibilities during this period:

- John spent a short time as Westinghouse's on-site director of engineering at the APS Palo Verde Nuclear Plant, AZ site to address poor work quality and missed schedules by Westinghouse. He developed a detailed project management plan and schedule and reviewed it weekly with the customer which greatly improved relationships and quality of performance.
- Assigned executive lead for major technical issues that could impact the financial health of the company, e.g. Next generation reactor, China AP1000 coolant pump experienced testing issues which if continued would impact the first China plant startup schedule. Assigned to assess and implement recovery efforts, leading a multinational team. The pump passed the next test.

Additional Experience – Westinghouse

August 1996 to March 1999 – Manager, Strategic Management

Responsible for the development of strategic and business plans for the Nuclear Services Business Unit. Functions included competitor and market information, alliance negotiations, acquisition evaluations and technology oversight for the Services Business Unit. Developed the business rationale which provided the basis, for the purchase of ABB/CE nuclear division. Worked closely with McKinsey to establish new strategy for Westinghouse under CEO Michael Jordan's direction.

May 1994 to August 1996 – Marketing Manager, Engineering

Responsible for the marketing and proposal development of Westinghouse Engineering products and services. Sales objectives were exceeded under John's leadership. Also responsible for developing teaming agreements with partners e.g. Agreement with Southern Company engineering for joint recovery efforts at Millstone Nuclear Plant.

March 1992 to May 1994 – Strategic Marketing

Roles included strategic marketing and planning, market forecasts and development of the engineering alliances with utilities. Negotiated teaming agreements and alliances with potential partners, e.g. engineering alliance with Jacobs Engineering.

June 1977 to March 1992 – Various Levels of Engineering

Technical Lead for various major nuclear components. Key activities included developing and qualifying new component designs and justifying, to the NRC, continued operation of nuclear plants that experienced component and equipment issues. Technical lead for APWR next generation reactor internals. Worked closely, in joint development, with Mitsubishi Heavy Industries.

ASME Activities

- Chair of COF (2021)
- Member of Committee on Finance (COF) (2019- 2020)
- Chair Strategy Advisory Committee (SAC)(2018)
- Member of ASME Board of Governors (2013 to 2017) During this period, John was involved in the following ASME activities:
 - Chair of the Strategy Task Force, initiated in November 2013, to develop an enterprise strategy for the ASME Society. The Strategy was approved by the BOG in the fall of 2015 and the Task Force was sunset in June 2016.
 - Chair of the Presidential Strategy and Planning Task Force, to formalize a permanent strategy committee of the board (SAC) and to continue strategy activities in support of implementing the enterprise strategy. (June 2016 – 2017)
 - Member of the Presidential Task Force on Industry Engagement (June 2016 -2017).
 - Member of The Committee on Executive Director Evaluation and Staff Compensation (EDESC) (2014 to 2017)
 - Chair of the Audit Committee (2016 to 2017), member (2014 to 2017). During tenure initiated (with John Elder) an ASME Enterprise Risk Management (ERM) Program.
- Member of Industry Advisory Board (IAB) (2008 to 2013)
 - New Member Chair 2010 to 2013
Increased membership roles with new major industry members and some new small companies with a limit of about 10% of the total membership allowed for small companies.
- Strategic Initiative and Innovation Board (2008 to 2011)
Develop and maintain ASME Innovation process. Review and recommend new programs in support of ASME strategic initiatives and ASME organization.
- Initial Early Career Conference June 2009
Helped coordinate and participated in the development of the first Nuclear Early Career Conference. Four hour presentation on how nuclear power plants are built. Encouraged 35 early career Westinghouse engineers to attend
- Advanced Manufacturing Working Group - Advisory Committee 2013

Other Activities

Developed and given numerous presentations and talks on topics such as nuclear power, advanced reactor designs, new products, early career engineers, innovation, and strategy development at domestic and international conferences, universities, and business meeting.

Committees and Societies (currently only active in ASME and Pitt visiting committee)

- US (DOE) representative for the Gen IV Senior Industry Advisory Panel (SIAP)
- Visiting committee member to the Mechanical Engineering Department at the University of Pittsburgh (still active)
- Member of the Carnegie Science Center STEM committee
- Member of the Board of Directors for the Pittsburgh Regional Business Coalition for Homeland Security
- Member of American Nuclear Society (ANS) & ANS Latin American Section
- Member of the Pittsburgh Technology Council
- Member of the Industry Fellows Forum
- Member of the executive steering committee for the Greater Pittsburgh Tech-Based Economic Development Strategy

Certifications

Certified Green Belt (6-Sigma)

Education

1986	University of Pittsburgh	MS	Industrial Engineering/ Engineering Management
1977	Rochester Institute of Technology 6 quarters of co-op work experience	BS	Mechanical Engineering
1973	Rochester Institute of Technology Associate		Mechanical Engineering
1985	University of Pittsburgh		Graduate Courses in ME

Outside Activities

President (1988 to 1997) of a youth soccer club for 9 years which provided soccer training, organized activities and a safe outdoor soccer facility for over 700 children. The 12-acre facility of 3 full size soccer fields, a club house and concession stand were built on purchased land during John's Presidency using only club fund raising and a small loan from a local bank. The facility opened in 1990 and is still in full operation.



Board of Governors Meeting Agenda Item Cover Memo

Date Submitted: October 15, 2021
BOG Meeting Date: November 9, 2021
To: Board of Governors
From: Michael W. Johnson
Presented by: Michael W. Johnson
Agenda Title: ASME Strategy Update

Agenda Item Executive Summary:

A briefing by the CSO to the Board of Governors on the actions taken by the Strategy Office.

Proposed motion for BOG Action:

No action required

Attachment(s):

None



**Board of Governors Meeting
Agenda Item
Cover Memo**

Date Submitted:	October 27, 2021
BOG Meeting Date:	November 14, 2021
To:	Board of Governors
From:	Mahantesh Hiremath
Presented by:	Mahantesh Hiremath and John Delli Venneri
Agenda Title:	ASME Constitution and By-Laws

Agenda Item Executive Summary:

An update will be provided on the changes in the ASME Constitution, as voted by the membership and the next steps for implementation.

Proposed motion for BOG Action: **None**

Attachment(s): n/a



Board of Governors Meeting Agenda Item Cover Memo

Date Submitted:	October 18, 2021
BOG Meeting Date:	November 14, 2021
To:	Board of Governors
From:	Richard Marboe, BOG Liaison to the Committee on Organization and Rules
Presented by:	Richard Marboe
Agenda Title:	Report of the BOG Liaison to the Committee on Organization and Rules

Agenda Item Executive Summary:

At every Board meeting, a mini report will be provided from a committee that reports to the Board. The report is provided by the Board Liaison to that committee.

This 5-minute presentation will offer a high-level update/overview of the committee's work.

Proposed motion for BOG Action: None

Attachment(s): PowerPoint

Committee on Organization and Rules

Rick Marboe, BOG Liaison

Committee's Responsibilities from By-Laws

From By-Law B5.4.2.1

- ensure that the Society is organized and supplied with qualified leadership to serve the current and anticipated future needs of the membership.
- reexamine regularly the Constitution, By-Laws and Policies of the Society. [Maintain consistency across all of these.]

From By-Law B4.2.7

- annually review Nominating Committee Operation Guide

Committee's Responsibilities from Society Policies

From Society Policy P-1.1

- Review new and existing Society Policies

From Society Policy P-4.1

- Review agreements of cooperation with organizations outside United States for BOG approval

From Society Policy P-4.2

- Review appointments of representatives to outside organizations for BOG approval

From Society Policy P-4.4

- Review selected internal ASME appointments for BOG approval

From Society Policy P-4.12

- Approve Sector and BOG Committee Operation Guides

From Society Policy P-4.14

- Review affiliations with other societies and organizations for BOG approval

From Society Policy P-12.9

- Oversee publication of ASME Annuals and Manuals [For example, the AC-10 Leadership Directory]

Governance Document Processing

- Constitution Amendments require approval of the corporate membership
- By-Law Amendments require COR review followed by approval at two different meetings of the BOG
- Society Policy changes require COR review followed by approval at one meeting of the BOG
- Sector and BOG Committee Operation Guides approved by COR

Committee Membership

- Dr. Emily Boyd (2022), Chair
- Dr. Said Jahanmir (2024), Past President Member
- 5 Members-at-Large
 - Leila Aboharb (2023)
 - Dr. Robert Camp (2023)
 - Joseph Radisek (2022)
 - Dr. Parisa Saboori (2024)
 - Thomas Vogan (2024)
- Dr. Rick Marboe (2022), BOG Liaison, non-voting
- Dave Soukup, staff support

Looking Ahead: Committee Plans for FY22

- Update By-Laws and Society Policies to reflect Constitutional Amendments
- Review appointments to encourage and ensure sectors and committees are supporting diversity, equity, and inclusion in their memberships. This might also include academia, industry, and government representation as well as geographic diversity.
- Encourage sectors to adopt best practices for their Operation Guides
- Update ASME Governance documents with inclusive language



Board of Governors Meeting Agenda Item Cover Memo

Date Submitted:	October 21, 2021
BOG Meeting Date:	November 14, 2021
To:	Board of Governors
From:	George Papadopoulos
Presented by:	George Papadopoulos
Agenda Title:	TEC Senior Vice President and Vice Chair Candidates

Agenda Item Executive Summary:

Attached, as part of the closed session agenda, are the background information packets for the TEC Council Senior Vice President and Vice Chair nominees.

The current TEC Senior Vice President recommends the Board of Governors reviews these packets and interviews the candidates for a final decision.

BOG Action: A motion to approve the recommendations for a Senior Vice President and Vice Chair as determined after the interviews.

Attachment(s): Nomination packets (2)

TEC SVP/VC Nomination

November 14, 2021

SVP Election and Recommendation

- Term period 2022-2025
- Recommendation for Mr. Robert Stakenborghs to be the next TEC SVP starting July 2022.
 - Currently serving as TEC VC



Vice Chair: Replacement for Mr. Stakenborghs

- Election held July 23, 2021.
 - 14 applications received by the TEC nominating committee
 - 5 candidates were identified and names placed on the ballot
 - 100% voting participation by the TEC Sector representatives
- Recommendations for VC position to start upon BoG approval:
 - Mr. Thomas Lavertu (term 2021-2023)



**ASME Board of Governors
Agenda Item
Cover Memo**

Date Submitted: October 27, 2021
BOG Meeting Date: November 14, 2021

To: Board of Governors
From: Various Units/Sectors
Agenda Title: Unit/Committee Reports to the Board

Agenda Item Executive Summary:

Attached are the following reports to the Board, highlighting the top three accomplishments, challenges, and other information:

- Committee of Past President's (CPP)
- Committee on Honors (COH)
- Technical and Engineering Communities Sector (TEC)
- Student and Early Career Development (SECD)
- Diversity, Equity and Inclusion Strategy Committee (DEISC)
- VOLT Academy
- Industry Advisory Board (IAB)
- Council on Standards and Certification (S&C)
- Public Affairs and Outreach Sector (PA&O)
- Member Development and Engagement Sector (MDE)
- Committee on Organization & Rules
- ASME Auxiliary
- Philanthropy Committee

Proposed motion for BOG Action: For information only.

Attachments: Reports attached.

Report to the Board
Committee of Past Presidents (CPP)
June 2021 – November 2021

Top Key Accomplishments (1-3):

1. Keith Roe is the new CPP Chair.
2. All appointments within ASME that require a representative from the CPP have been filled. See chart below.
3. The Fellows Review Committee is working on diversity of committee members and nominations. Nominations from industrial and government sectors is weak.

Challenges:

None:

Other information:

(This can include new ideas/opportunities, next step actions and major meetings not covered in the top key accomplishments.)

The CPP will focus on identifying nominees for our ASME awards and will sunset outreach for nominees for Outside Awards.

July 2021-2022	<u>CPP Officers</u>	<u>Nominating Committee</u>	<u>Advisors</u>	<u>Ethics Chair - 3 year term</u>	<u>Fellows Review</u>
	Keith Roe Chair	Charla Wise	Sue Skemp (2) (3yr) Chair	Madiha Kotb Chair	
	Charla Wise Vice Chair	Said Jahanmir	Charla Wise Vice Chair	Bob Sims	
	Said Jahanmir Secretary	Rich Laudenat		Terry Shoup	
				Marc Goldsmith Advisor	
				Keith Roe	

Report to the Board
Committee on Honors
June 2021 – November 2021

Top Key Accomplishments (1-3):

Diversity, Equity and Inclusion

COH's Tiger Team is continuing to advance ASME's diversity, equity, and inclusion initiative. To date, the Tiger Team has

- Reviewed bottlenecks in the award nomination process, resulting in a streamlining of the award nomination form and instructions (see attachment);
- Shifted award nomination submission deadlines to align with the award presentation venues, thus allowing better promotion of each award while levelizing COH's workload to allow them to focus on more strategic initiatives; and
- Created social media templates for advertising award nomination deadlines and for recognizing awardees.

Next steps for the Tiger Team includes hosting diversity, equity and inclusion training for all volunteers involved in the awards process; creating a few sample nomination packets for reference; moving the award nomination form online (via Airtable form); and implementing the social media marketing campaign.

Challenges:

None

Other information:

COH recognizes that embracing diversity, equity, and inclusion in the selection process will enhance the ASME Honors and Awards Program. COH is committed to honoring outstanding individuals throughout the engineering profession.



Award Nomination Instructions

UPDATED SEPT 2021

QUICK TIPS

DO	DON'T
<ul style="list-style-type: none"> ✓ Convey the nominee's worthiness for this award with specific, accurate, and succinct examples 	<ul style="list-style-type: none"> ✗ Provide the nominee's complete biography unless relevant to the award (e.g., a lifetime achievement award)
<ul style="list-style-type: none"> ✓ Identify how the nominee's achievements meet the award criteria in the citation (§ 4) 	<ul style="list-style-type: none"> ✗ Make the citation (§ 4) overly broad in scope; it may prevent the nominee from receiving future awards from ASME
<ul style="list-style-type: none"> ✓ Include sufficient information in the nominee's bio (§ 7), qualifications (§ 8) and work product (§ 9) for the award review committee to assess the nomination 	<ul style="list-style-type: none"> ✗ Obtain more than one letter of recommendation from the nominee's employer
<ul style="list-style-type: none"> ✓ Explain how this award differs from any previous ASME honors the nominee received 	<ul style="list-style-type: none"> ✗ Exceed space allotment for the nominee's bio (§ 7), qualifications (§ 8), work product (§ 9), and letters of recommendation
<ul style="list-style-type: none"> ✓ Verify that at least one of the four reference letters come from a current ASME member 	<ul style="list-style-type: none"> ✗ Provide an comprehensive list of the nominee's publications and other work product in § 9
<ul style="list-style-type: none"> ✓ Describe how the nominee's listed work product supports the achievement honored by this award 	<ul style="list-style-type: none"> ✗ Attach crucial information for vetting the nominee's achievement as an appendix (§ 10)
<ul style="list-style-type: none"> ✓ Link or attach media and other supporting materials as an appendix (§ 10) 	<ul style="list-style-type: none"> ✗ Provide an exhaustive list of appendices (§ 10)

ELIGIBILITY

Any person whose activities support the ASME mission, vision, and values may be nominated for an ASME award **except** ASME staff and those who are currently serving as a voting member of any Board, Committee, or other unit of the Society that has the assigned duty to take action on any step in this award's selection process — including but not limited to members of the Board of Governors, Committee on Honors, General Awards Committee, and special award committees.

NOTE Self-nominations are accepted only for the Charles T. Main Award.

NOTE ASME Policy prohibits recognizing the same achievement or body of work with multiple awards; if the nominee has received previous honor(s) from ASME, describe how the accomplishment nominated to be recognized at this time by this award differs from those recognized by any previous awards.

INSTRUCTIONS

1. NAME OF AWARD

Enter the full name of the ASME honor or award for which you are nominating this (these) individual(s).

2. DATE SUBMITTED

Enter the date on which you submitted the completed nomination form to the appropriate staff or special award committee chair.

3. NOMINEE INFORMATION

Provide the full name, title or position, employer, and a mailing address for the nominee. Also list whether the nominee previously received any ASME honors or awards.

- If the award criteria requires ASME membership, provide member number(s) for the nominee(s).
- If the award criteria has an age requirement (e.g., “prior to the nominee’s 40th birthday”), enter the date(s) of birth of the nominee(s).

NOTE If nominating multiple individuals (e.g., for a literature award with multiple authors), enter the first or lead nominee’s information in § 3, then attach an Appendix (§ 10) with corresponding information for each additional nominee.

4. CITATION

The citation is the heart of the nomination. It should succinctly — in 40 words or fewer — describe why the nominee(s) deserve(s) this award. The citation should be specific to the award and identify how the nominee(s) achievements meet the award criteria. The citation should hook members of the award committee, enticing them to continue reading, and differ from any previous ASME honors the nominee(s) received.

NOTE For literature awards, also include the full scholarly citation for the nominated publication.

SAMPLE CITATIONS

For ASME Medal and/or Honorary Member

For pioneering contributions to the science and technology of mechanical engineering through multidisciplinary research, impactful work in education and mentoring, leadership in academia and government, and innovation in connecting research to industry and policy

For an Achievement Award

For innovative experimental work in superconductor tunneling that led to a major advance in the understanding of the phenomenon of superconductivity and to new scientific instruments

For an Early Career Award

For growth as an engineering expert through educational and professional accomplishments, including experience in both industry and academia; for progressive volunteer contributions to ASME and the engineering community; and for inspiring young people and the experienced to advance their careers to the next level through a passion for leadership development

For a Literature Award

For identifying novel phenomena affecting turbine losses that will impact the future of turbine modeling, as presented in the paper, “The Impact of Combustor Turbulence on Turbine Loss Mechanisms”

5. NOMINATOR INFORMATION

Enter your contact information as the nominator; staff will use this contact information to notify you, as the nominator, if the nomination is successful. In addition to completing the nomination form, the nominator must write a letter of recommendation in support of the nomination.

Length and formatting constraints apply: Letters of recommendation from the nominator and each reference shall not exceed one standard letter (8.5”x11”) or A4 page with a minimum 11 pt font (preferably Times New Roman or Arial).

NOTE To avoid potential conflicts of interest, nominators shall not have a monetary relationship with any nominee or any nominee’s immediate superiors.

6. REFERENCES

Enter the requested contact information for each reference providing a letter of recommendation. These three references should be in a position to substantiate the nominee(s) contribution(s) to the achievement to be recognized by providing explicit detail from personal knowledge.

Length and formatting constraints apply: Letters of recommendation from the nominator and each reference shall not exceed one standard letter (8.5”x11”) or A4 page with a minimum 11 pt font (preferably Times New Roman or Arial).

NOTE At least one of the four letters submitted (the nominator’s letter plus the three letters from references) must come from an ASME member.

NOTE No more than one should come from the nominee’s organization.

NOTE To avoid potential conflicts of interest, using references that have a monetary relationship with the nominee or the nominee’s immediate superiors is strongly discouraged. To substantiate the importance of the achievement to be recognized, references should include those outside the immediate associates of the nominee.

NOTE The following persons may not serve as references:

- ASME President
- ASME Board of Governors Members-at-Large
- Members of any award committee that judges the nomination
- ASME Staff

7. NOMINEE BIO

Provide a short biography of the nominee, including education (noting dates of graduation), positions held, and participation in civic groups — including but not limited to ASME activities. Also cite any honors or awards received that support the nominee(s) current achievement. The space allotted holds approximately 200 words.

NOTE If nominating multiple individuals (e.g., for a literature award with multiple authors), enter the first or lead nominee’s information in § 7, then attach an Appendix (§ 10) with similarly succinct biographies for each additional nominee.

8. QUALIFICATIONS

Explain why the nominee(s) deserve(s) the award. Justify claims made in the Citation (§ 4) and identify specific ways in which the nominee(s) accomplishment meets the requirements for the honor. This narrative statement should be specific, accurate, complete, and succinct (approximately 500 words).

In most cases, the award committee lacks personal knowledge of the nominee(s) and thus relies on the documentation provided to make a reasonable judgment as to the nominee(s) worthiness for the award. Therefore, it is imperative that this qualifications statement convey the true merits of your nominee(s) and help the award committee reviewing the nomination to view the nominee(s) achievement as you do: as worthy of this award.

NOTE If the nominee(s) has (have) received previous honor(s) from ASME for similar work, describe how the accomplishment nominated to be recognized by this award differs from any previously honored accomplishment(s).

9. WORK PRODUCT

In the two pages provided, list no more than 15 of the nominee(s) significant work products that support the achievement and claims made in the Citation (§ 4). Such work products may include but are not limited to:

- Publications (e.g., peer-reviewed papers, conference proceedings, and trade magazine articles)
- Patents, copyrights, trade secrets, and other contributions to protected intellectual property
- Leadership outcomes, such as products developed or outcome metrics of programs led

Please list the work products in order of significance and succinctly explain the importance of at least five of the included work products.

NOTE Check award criteria for applicability of the different categories of work product.

10. APPENDICES

The nominator may attach additional materials that support the nominee(s) achievements as appendices. Appendices may include, but are not limited to:

- A list with contact information for additional nominees
- The nominee(s) résumé or CV
- Links to media, such as news coverage about or interviews with the nominee(s)
- Specifications of products designed or materials related to programs led

NOTE Reviewers are not required to reference materials included in the appendices; include sufficient information in §§ 7, 8, & 9 to support the claims made in the Citation (§ 4) and the achievement's relevance to the award criteria.

QUESTIONS?

For additional guidance, please visit go.asme.org/awards/ or contact

Leila Persaud, Program Manager
ASME Honors & Awards
PersaudL@asme.org
+1 (212) 591-7071



Report to the Board
TEC Sector
June 2021 – November 2021

Top Key Accomplishments (1-3):

1. Technology Groups

The Technology Groups (TGs) are focused on refining their 6, 12 and 24 month plans. Activities include creating business plans for conferences and workshops, collaborating with Learning & Development on new content and working with Codes and Standards to assess needs for new standards.

The Digitalization TG is currently working on a business plan for a cross-discipline Digitalization conference and investigating the viability for a Digitalization Toolkit through L&D. The Clean Energy TG is formalizing a Hydrogen Committee, some members of which will participate on the SES Hydrogen Steering Committee, to ensure collaboration and coordinate Hydrogen activities across ASME. The Robotics TG is planning a series of discovery workshops to determine a roadmap on where the opportunities lie within ASME in the various robotics technical areas.

2. Technical Divisions

TEC Talks, a monthly 1-hour webinar series, continues to gain interest maintaining an average of about 300 registrants per event. This member-only benefit allows Divisions to highlight their activities, while providing technical content as a complimentary benefit to members.

The Division Executive Committees have been providing volunteer support for ASME's open access journal, offering nominees for editors, associate editors, and articles.

3. Technical Conferences

Many of the 2021 conferences are now in their second year of offering virtual conference programs. A comparison from FY21 to FY22 has shown strong improvement in overall attendee satisfaction and a 10% increase in year over year participation and revenue.

New author guidelines have been communicated out to the Divisions, in preparation for 2022 in-person conferences.

Challenges:

The TEC Sector is transitioning the newly elected Vice Chairs on the Council and assigning roles and responsibilities for each position. It will take some time to find the right approach regarding the distribution of responsibilities and may take one or two iterations before we find the right balance.

Other information:

Video content from the 2020 virtual conferences has been moved to our new product platform for the ASME Video Collection. TEC staff is currently working to move 2021 content to the platform and we will continue to collect videos in 2022 even with the return to in-person events.

Report to the Board

Student and Early Career Development Sector

JUNE 2021 – NOVEMBER 2021

Focusing on our core pillars. In August, the Council held a strategic planning meeting to explore an engineer’s lifelong journey through ASME. Key insights included the need for continually engagement instead of our current transactional approach, including processes to reinforce handoffs to the other sectors. The retreat also identified the need to extend the top of SECD’s funnel into high school to facilitate a handoff from PAO’s K-12 programming. Finally, the meeting helped SECD to realign around supporting our core pillars: Career Development, Competitions, and Community-building through international events.

Key Accomplishments

- 1. Increasing engagement with virtual events.** Since the start of FY22, SECD’s primary digital engagement outreach strategy has been through the E-Fest® & EFx® programs. To date, we’ve hosted four EFx events — summarized below — with upcoming events in Germany (4 December 2021) and discussions for at least three additional digital EFx events in CY22.

EVENT	REGISTERED	ATTENDED	RATE
EFx BITS Pilani – Industry 4.0	954	362	37.9%
EFx Peru – Empleabilidad	429	204	47.5%
EFx Columbia – Energías Limpias	396	183	46.2%
EFx Guanajuato – Overcoming Challenges	97	45	43.2%
Total – all EFx events	1,876	794	42.3%

The Student & Early Career Town Hall, hosted jointly with MDE, in September drew a total of 171 viewers (during & after) of 340 registered (50.2%). For free events, an attendance rate above 33% is considered strong. Also, early survey results show strong NPS, Customer Delight, and Future Intent scores indicating the perceived quality of these programs.

- 2. Pairing E-Fest Careers with ASME’s virtual career fair.** Our second annual E-Fest Careers event for engineering students, early career engineers, and high school students happens Saturday, 13 November. We are cross-promoting the event with Membership’s US-centric virtual career fair on Tuesday, 16 November. As ASME returns to in-person, our goal is to continue to connect E-Fest Careers to virtual and in-person career fairs globally.
- 3. Launching the FutureME Platform.** A limited alpha release of the FutureME Platform — formerly known as the Career Engagement Center — will launch in conjunction with E-Fest Careers on Saturday, 13 November. This alpha release contains the Labor Market Intelligence tool for the US market; the goal of this limited-access launch is to engage a pilot stakeholder community in order to solicit their feedback.

Challenges:

- 1. Virtual event fatigue.** As we press into the second year of all-virtual events, we are seeing an ~10% drop in registration despite stronger and more targeted marketing efforts. Anecdotal remarks indicate our audience is experiencing virtual event overload and fatigue.
- 2. Asymmetric reopening.** In markets that opening up, we’re seeing pressure to resume in-person activities, such as for our competitions. For FY22, we’ve structured our competitions to allow builds but not require them in recognition that vaccine availability and local mandates vary widely.

Report to the Board

Diversity, Equity, and Inclusion Strategy Committee
June 2021 – November 2021

Top Key Accomplishments (1-3):

1. The ASME [Diversity, Equity, and Inclusion Toolkit](#), a collection of resources for volunteers who want to advance DEI in their units, was launched in June 2021.
2. Volunteers from the DEI Strategy Committee have been meeting with volunteer units across ASME to give an overview of the DEI Toolkit, its various components, and how to use them. These presentations will continue into the fall and beyond, as needed. Presentations on the DEI Toolkit will also be offered to staff.
3. The DEI Strategy Committee is working with the Committee on Honors to advance DEI in ASME's Honors and Awards.

Challenges:

As the DEI Toolkit roll-out continues, one challenge will be gathering information on if, when, and how the Toolkit is being used by volunteers. The committee is working on plans to follow up with the groups that have been trained on the Toolkit.

Other information:

1. The IMECE Women in Engineering Reception will be held on Tuesday, November 9 from 7:00-8:00 pm EST. This year's reception will honor the Bioengineering Division's Women's Networking Group, the 2021 receipt of the ASME Johnson and Johnson Medal.
2. The DEI Toolkit is intended to be a living collection of resources. The committee will plan for periodic reviews and updates to the Toolkit and a plan for communicating out when updates occur.
3. The DEI Strategy Committee will continue to work with and support the LGBTQ+ Pride group as they develop their strategy moving forward.

Report to the Board
VOLT Academy Executive Committee
June 2021 – November 2021

Top Key Accomplishments (1-3):

1. VOLT launched the pilot of the new Volunteer Leadership Pathway program with 10 participants with varying levels of volunteer experience. The committee identified mentors for each participant to work with them throughout the pilot. The pilot will run through FY22 with the aim of opening the program to a broader group of volunteers beginning in FY23.
2. The 2021 VOLT New Chair Orientation and Training was offered as a hybrid asynchronous and live over Zoom event in August. This year, in addition to new chairs reporting into the five sectors, an additional session was offered for section leaders in September. There were 62 participants across both sessions.
3. The first VOLT Leadership Workshop of FY22 will be on October 27, 2021. The topic will be Performance Management. The session will be presented by Matt Schulte of Burns & McDonnell.

Challenges:

Marketing for VOLT's virtual programs continues to be a challenge. For the October workshop, the committee is implementing a grassroots and social media outreach effort to supplement the email marketing efforts.

Other information:

1. VOLT will support the Student Leadership Training Conference with a session called "ASME 101" on October 29, 2021.
2. The application period is now open and marketing is underway for the 2022-2023 ECLIPSE program. The application deadline is January 7, 2022.

Report to the Board
Industry Advisory Board
June 2021 – November 2021

Top Key Accomplishments (1-3):

The ASME Industry Advisory Board (IAB) held its spring 2021 meeting on October 25, 2021. Titled "From Digitalization to Decarbonization," the IAB members first discussed digitalization of content, and then transitioned to a discussion of decarbonization as it relates to renewable energy, grid balance and storage, transportation, electrification, and the decarbonization of manufacturing. Mark Ackiewicz, Acting Director of Carbon Management Technologies of the U.S. Department of Energy, was the keynote speaker.

Challenges:

1. While significant progress has been made in the last several years in improving relevance and value of IAB participation to both members and to ASME, there is more work to be done. Collectively, ASME leadership and IAB leadership/members continue to identify ways to improve interactions and value in terms of insights, shared perspectives, and opportunities for deeper Industry/ASME collaboration.
2. There has been less time for discussion during the 1.5 - 2-hour virtual meetings. But when polled, IAB members prefer to keep the meeting under 2 hours.

Other information:

1. The IAB will hold its next virtual meeting in spring of 2022. The strategy office will work with the IAB Executive Committee to review topics for this meeting.
2. Scott Stallard will conclude his term as IAB Chair in June of 2022. Staff is working with the Executive Committee to propose the new Chair and Executive Committee.
3. The Executive Committee is also considering potential new companies to add to the IAB.
4. Mike Hess is replacing Mark Palmer as the Medtronic representative on the IAB. Caren Anders retired from Quanta Technology. She will be rotating off the IAB in November of 2021.

Report to the Board
Council on Standards and Certification
July 2021- November 2021

Top Key Accomplishments:

1. New Publications

- a) BPVC Section XIII Overpressure Protection is a new Section of the Boiler and Pressure Vessel (BPV) Code which was issued as part of the 2021 BPV Code on July 1, 2021. It provides rules for the overpressure protection of pressurized equipment such as boilers, pressure vessels, and nuclear components. The content represents a consolidation and realignment of overpressure protection requirements formerly published in the construction sections of the BPV Code and is a required Code for ASME certificate holders.
 - b) Summary of Significant Changes in the 2021 ASME Boiler and Pressure Vessel Code (6 New Products)
 - c) QPS-2021, Quality Program for Suppliers: General Industry was published and made available to the public in June 2021 to support the associated certification program being made available Q2 of FY22. The standard allows a company to create a quality program to suit the size and complexity of its operations.
2. **Program:** QPS Program: Certification for compliance with the QPS Standard is being released Q2 of FY22 for companies to meet customer specifications for quality programs.
3. **Research Project:** US-DOE Heat Rate Determination: This study concerns the development of methodologies to provide US regulatory agencies and industry with consistent procedures to report annual heat rates. The need for this research project was established by the Research Committee on Energy, Environment, and Waste (RCEEW) under TEC. Multiple organizations collaborated to determine the scope of work and need for this project and worked with US DOE to secure a grant to externally fund this project. It is expected that new ASME Performance Test Code requirements will be developed to standardize instrumentation, equipment-operating requirements, calculation methods, and uncertainty analysis. The project is being managed by ASME ST-LLC.

Challenges:

1. CA Connect – The enhancement phase for CA Connect began August 2021 with a planned completion date of December 15, 2021.
2. Collaborative SES teams plan to closely coordinate implementation of Rev. 19 of the ASME accredited procedures with the C&S Connect replacement launch, expected FY23 Q4. Associated with this are:
 - a) C&S Connect Replacement - The Implementation Phase of the Project started September 2021.
 - b) Procedure Changes (Proposed Rev. 19) - Based on the ASME approval path and consultation with ANSI staff, the approval for Rev. 19 will be finalized between January 2023 and April 2023.
3. Certification & Accreditation (CA). We continue to meet the ongoing challenges of COVID-19 and the absence of physical onsite activities. CA's robust virtual auditing program comprises 44% of all scheduled activities involved with the issuance, maintenance, and renewal of ASME's Certificate programs; an increase of 5% since last reporting. Also, our approved processes for "Remote Inspections & Audits performed by the Authorized Inspection Agencies has been used 350 times in support of remote certification activities.

Other information:

1. Council Policy CSP-11 "Committee Participation Acknowledgement" has been updated and Society Policy P15.14 "Code of Conduct" has been added to the Participation Acknowledgement Form (PAF) used by SES. On the updated form, applicants must now acknowledge compliance with this policy.
2. Collaboration/Opportunities:
 - a) SES staff are participating with TEC and industry in a "Hydrogen for a Green Economy" initiative in which one focus is the preparation of guidelines to support the application of ASME standards and certification within the hydrogen industry.
 - b) SES has launched a "Project Team on Standards Content for ASME Member Benefit". The Project Team is tasked with generating ASME Members-only content for a periodic ASME Membership newsletter, and individual information pieces for an ASME Members-only library of evergreen content.

Report to the Board

Public Affairs & Outreach (PAO) Council/Sector
June 2021 – November 2021

Top Key Accomplishments (1-3):

1. **ASME/White House Engagement:** White House Office of Science and Technology Policy (OSTP): Government Relations convened a meeting for Tom Costabile and **Dr. Eric Lander**, President Biden's Science Advisor and Director of OSTP, to brief him on ASME's mission, programs, and activities, as well as to continue our long-standing relationship of collaborating with OSTP. This meeting led to the Robotics Public Policy Task force hosting **Dr. Lynne Parker**, Director of the National AI Initiative Office at OSTP, to provide insight into the administration's AI priorities. Finally, ASME convened a meeting for scholarly publishers with **Jerry Sheehan**, the Assistant Director for Scientific Integrity & Data Access at OSTP, to provide insight on issues pertaining to scholarly publishing and open access.
2. **2021-2022 ASME Federal Government Fellows Placements:** Jaclyn Brennan, Elisah VandenBussche, Michael Woodmansee, and Alaa Elwany began serving their one-year fellowships as of September 1. Their placements are in the offices of (respectively) Rep. Anna Eshoo (CA-18), Rep. Paul Tonko (NY-20), Senator Chris Coons (DE), and the Advanced Manufacturing National Program Office (AMNPO) at the National Institute of Standards and Technology (NIST), U.S. Department of Commerce. Applications for ASME's 2022-2023 Federal Government Fellowships are open from September 15-December 15.
3. **Outreach and Social Impact:**
 - a. Through a collaboration with Discovery Education, ASME will be launching a new "Engineering Dreams" channel on the Discovery platform in November that will bring Engineering Career Pathways and Engineering Education into over 30,000 public schools in the United States.
 - b. ASME continues to update its SROI dashboards on the ASME Foundation website to highlight the growth and reach of our portfolio of programs. <https://www.asmefoundation.org/our-impact/data/>
 - c. K-12 STEM Education hosted 22 virtual classroom visit events hosted by ASME member volunteers, engaging over 470 students from Title 1 schools.

Challenges:

- Engaging with policymakers remains challenging given the continued uncertainty of COVID-19 and the "Zoom fatigue" that has been encountered regarding some virtual events.
- Strengthening and expanding our global initiatives and outreach remains a challenge due to ongoing COVID-19 restrictions (for in-person events), FTE vacancies, and the need for a more developed and streamlined global branding strategy.
- ASME's U.S. government relations continue to follow concerns related to regulatory and intellectual property issues in the Endless Frontier Act/U.S. Innovation and Competition Act (USICA) legislation.

Other information:

- The Autodesk Foundation invested in a considerable grant toward ASME's Engineering for Change (E4C) Research Fellowship—enabling the program to [double in size](#) from 25 fellowships last year to 50 fellowships in 2021—and will be renewing their support in FY22. The EFC Fellowship program also secured a new foundation sponsor in the Siegel Family Endowment.
- Community College and HBCU Pilot Programs: ASME is working with six Community Colleges and three HBCU's in a pilot program that will seek to understand how ASME offerings might need to be adapted for scaled engagement with these respective communities.

Report to the Board
MDE Sector / Section Operations
June 2021 – November 2021

Top Key Accomplishments (1-3):

1. Section Operations acquired a new Enterprise tool, AirTable, and we have transformed data collections for Section information. The move to this platform has allowed us to gain efficiencies while having better insight into Sections – their leadership, engagement levels, activities and results, and opportunities to identify where Sections need help/improvement. We are now collecting yearly information on Student Sections. We developed a standard Student Section update form to collect student leadership, gauge activity and determine how we can further help Student Sections.

2. We have successfully revitalized 4 additional Sections this year and 2 more will be completed by November. One of the key elements of the process is that we build a strong relationship with key volunteers prior to their officially becoming a new Section. They must complete a sustainability plan which includes a 3-year plan for success, and offer a kickoff event to introduce local members to join them. As the volunteers move through this process, they build a strong team and are clear on expectations of launching this new section. We have also been approached by 3 volunteer groups that want to explore mergers with nearby Sections to strengthen their programs and to offer programming to more members in the area. We have drafted a merger process and have begun exploratory discussions.

3. We held two Training and Leadership development programs for students. The Student Leadership Summit welcomed students to their new year and discussed the benefits of membership with ASME and introduced student leaders to their support teams. The Student and Early Career Town Hall was held in collaboration with the SECD and provided students with information on competitions this year and the new resources developed for their use.

Challenges:

As we move away from ASME Anywhere, we need to have solid systems and protocols in place to protect those who attend our local face-to-face events and activities. We are seeking to develop methods of tracking attendance, ensuring compliance, and avoiding overwhelming volunteers ensuring they do not feel stifled or limited in their efforts to engage with their local community.

Other information:

In October, the Sections team added a new position, Student Section Coordinator, to dedicate more attention to strengthening and expanding ASME's relationship with students and universities. Currently, we have robust Student Section numbers with over 600 student sections, globally. While we have much energy in the student sections, only about 30% of student section members are ASME members. It is critical that we dedicate our resources to build relationships, explain benefits of membership, and increase membership numbers in this important demographic. It is vital that we gather student information in our database to allow us to have direct communication with them as they leave university and become early career engineers.

Report to the Board
Committee on Organization and Rules
June 2021 – November 2021

Top Key Accomplishment:

1. Completed review of five ethics-related Society Policies that the BOG approved at its October meeting.

Challenges:

Forthcoming update of By-Laws, Society Policies, and Operation Guides related to Constitutional Amendments.

Other information:

Dr. Parisa Saboori became a new member-at-large on the Committee effective October 6, 2021, replacing Dr. Nael Barakat, who resigned from the Committee.

Report to the Board
ASME Auxiliary
June 2021 – November 2021

Top Key Accomplishments (1-3):

1. Awarded the following scholarships totaling \$153,00.00
 - 14 Undergraduate
 - 6 Graduate
 - 12 for graduating High School Senior
 - 3 International
2. The Myrna R. and Sam Y. Zamrik Scholarship was added to the pool of undergraduate scholarships
3. Three (3) loans have been paid in full.

Challenges:

The Auxiliary has a difficult time engaging new members to join their group and read scholarship applications.

Other information:

(This can include new ideas/opportunities, next step actions and major meetings not covered in the top key accomplishments.)

Report to the Board
Philanthropy Committee
July 2021 – October 2021

Top Key Accomplishment: Continued to transform ASME's business model for Philanthropy and the Foundation so there will be a substantial increase in funds raised to support our programs, an important milestone for the long-term sustainability of the Society's mission:

- 1. Completing first 16 months of Capital Campaign Fundraising Outreach to a mix of IAB member companies, individual ASME leaders, as well as individuals, foundations and companies that are "new" to ASME**
 - Some fundraising highlights include: renewed investment in E4C Fellowship by Autodesk Foundation, now totaling \$500,000; secured a \$100,000 grant from Siegel Family Endowment (new donor to ASME) in support of E4C; for the third year in a row, secured an unrestricted charitable gift from Ansys Founder John Swanson (a personal gift that amounts to an additional \$370,000 in this fiscal year); Ansys (the company) also renewed its support of scholarships -- aimed at enhancing diversity, equity and inclusion in the profession -- which now totals \$45,000; secured seed funding from UEF of \$75,000 for the new Community College Engineering Pathways initiative.
 - Continued to expand audience base of public program events including ISHOW, E4C Fellows, Scholarships, Awards, etc. Ongoing effort to invite industry leaders and key stakeholders to participate in events as spokespersons to heighten their awareness of our programs' impact, strengthen ties to ASME, and -- in some cases -- increase likelihood of securing donations from their organizations. Representatives from the following will be involved in the upcoming E-Fest Careers, for example: Tata Consultancy Services (TCS), Accenture, Center for Energy Workforce Development, and the Advanced Regenerative Manufacturing Institute.
 - Stepped up our engagement with "Capital Campaign Cabinet" members in an array of leadership roles, i.e., championing our programs within their respective companies; as authors of articles articulating our messaging; and as speakers at marquee ASME events.
 - Organized and activated a 50-person "Host Committee" for upcoming Philanthropic Impact Event -- comprised of ASME volunteer leaders/senior staff, former program beneficiaries, as well as new significant donors -- whose members are actively engaged in outreach to their networks. For the first time, this now-annual event has an intentional fundraising focus.
 - Collaborated with Programs team to launch the Community College Engineering Pathways and HBCU pilots and working closely with them on aggressive fundraising outreach to support the new program.
- 2. Made additional, substantial headway with putting the infrastructure needed to successfully conduct Capital Campaign in place**
 - Expanding campaign messaging and materials to add clear focus on Equity, both in professional opportunities in engineering and equitable access worldwide to engineering solutions.
 - Heightening awareness of impact of ASME's philanthropic programs, with both "internal" audiences and externally. Increased communications outreach with Foundation-branded content via ASME.org, ME Magazine, ASME's social media channels, and periodic newsletter; began to work with new vendor for high-impact direct-mail/email solicitation program.
 - Adding one more key hire to complete current plan for staff team; in addition to strong fundraising backgrounds, staff also has communications and events expertise. (New hire will replace staffer who moved abroad because of COVID-related reasons.)

Challenges

1. Navigating the amount of work entailed to build ASME's philanthropic culture and philanthropic network in what is essentially a start-up function; the **time-intensive nature of the work makes it challenging to get to the velocity/volume of outreach needed for a successful campaign**
2. **Slow pace of identifying individuals willing to be "champions" for the Campaign with their employers at companies where ASME has a good-sized footprint of members among the employees, and in identifying individual volunteers/members who might have the interest in and capacity to make a significant gift**
3. **Lack of diversity within leadership groups can be a disqualification for certain grants**

Other information: All of us on the Philanthropy Committee and combined Philanthropy & Programs Departments' staff would like to again thank the Board of Governors for the extremely generous \$5 million contribution to the Campaign for Next Generation Engineers Who Transform The World. The commitment is profoundly meaningful to us on so many levels: as an expression of your confidence in the programs' impact and the campaign itself, the impetus to invest that it will provide to prospective donors, and the effect it will have on people all over the world whose lives ASME touches through these programs.