



Two Park Avenue

tel 1.212.591.7000

New York, NY

fax 1.212.591.7674

10016-5990 U.S.A.

www.asme.org

## **FY24 BOARD OF GOVERNORS**

Sunday, June 2, 2024, 9:00 AM – 2:00 PM (PDT)

Westin Long Beach, Long Beach, California

### **FINAL MINUTES**

Attendance during the open session was as follows:

#### Board of Governors

President: Thomas Kurfess  
Governors: Andy Bicos, Alma Fallon, Thomas Gardner, Susan Ipri-Brown, Kathryn Jablow, Sam Korellis, Monica Moman-Saunders, Jared Oehring, Patrick Vieth, Wolf Yeigh\*  
Absent: Dave Schlesinger

Executive Director/CEO: Thomas Costabile

#### Other Officers

Senior Vice Presidents/Elects: Rick Cowan, Section Engagement Sector  
Nicole Kaufman Dyess, Student & Early Career Development  
Jennifer Jewers Bowlin (Elect), Student & Early Career Development  
Thomas Lavertu, Elect, Technical & Engineering Communities  
Bob Stakenborghs, TEC\*  
Lester Su, Public Affairs & Outreach  
Tom Vogan, Standards and Certification\*  
Secretary/Treasurer: Tara McMahan  
Ass't Secretary/General Counsel: John Delli Venneri, Esq.  
Chief Financial Officer: William Garofalo  
Governors-Elects: Nicole Kaufman Dyess, Janis Terpenney  
Absent: William King

#### Guests

Jennifer Atchinson SES/DEI Chair, Philadelphia Section  
Carlos Beatty, Jr. Governor Candidate  
Sean Bradshaw Chair, Committee on Sustainability\*  
Lexie Cheng Santa Clara Valley Section Chair  
Elisabeth Deeb History & Heritage Committee  
Madiha Kotb Past President, 2013-2014  
Rich Laudonat Past President, 2019-2020\*  
Clark McCarrell, Jr. Member  
Nikhil A. Menezes History & Heritage Committee  
Karen Ohland Past President, 2022-2023  
Joseph Radisek H&H Committee  
Mary Lynn Realff Incoming Chair, DEI Strategy Committee  
Vickie Rockwell Past President, 2011-2012

## FY24 Board of Governors Meeting Minutes

June 2, 2024

Page 2 of 7

Keith Roe	Past President, 2016-2017
Nicole Salloum	ECLIPSE Intern, BOG
Bob Sims	Past President, 2014-2015*
Susan Skemp	Past President, 2002-2003
Jamie F. Sotomayor	Vice Chair, SES

### Staff

Iana Aranda	Sr. Director, Engineering Global Development*
Keith Bloesch	Sr. Managing Director, Business & Technology Solutions*
Susie Cabanas	Manager, Global Alliances & Board Operations
Arin Ceglia	Managing Director, Learning & Development*
Chandra Clouden	Chief Human Resources Officer
Gretchen Crutchfield	Manager, ASME Foundation
Timothy Graves	Managing Director, Technical Conferences & Member Communities
Josh Heitsenrether	Sr. Managing Director, Marketing & Digital Standards*
Nina Holtz	Communications Specialist
Michael Johnson	Chief Strategy Officer
Phyllis Klasky	Director, Events Management
Keith Miles	Director, Major Gifts
Tom Meehan	Controller
Jeff Patterson	Chief Operating Officer
Allian Pratt	Chief Leadership Engagement Officer
James Riley	Sr. Desktop & Executive Support Technician
Nachalie Rodriguez	Executive Assistant, Executive Office
Patti Jo Rosenthal	Manager, K-12 Programs
Karen Russo	Director, Executive Operations
Anand Sethupathy	Managing Director, Strategy & Programs
David Soukup	Managing Director, Governance*
Evelyn Taylor	Director, Section Operations
Mel Torre	Manager, Corporate Communications
Matt Vasquez	Sr. Director, Engineering Operations*
Angelique Vesey	Director, Technical & Engineering Communities
Stephanie Viola	Managing Director, Philanthropy/ED, ASME Foundation

\* *Via Zoom*

### **1. Opening of Meeting**

- 1.1 Call to Order: On June 2, 2024, a meeting of the FY24 Board of Governors of the American Society of Mechanical Engineers was held at the Westin Long Beach in Long Beach, California and simultaneously via the Zoom application. A quorum was present, and the meeting was called to order by President Kurfess at 9:00 AM PDT.
- 1.2 Adoption of the Agenda: On motion made and seconded, the Board unanimously voted to adopt the agenda as circulated on May 20, 2024.

Mr. Kurfess called upon Governors Kathryn Jablokow and Jared Oehring as well as Michael Johnson to present Thomas Costabile with his ASME Fellow designation and pin.

- 1.3 President's Remarks: President Kurfess welcomed all to today's open session. He mentioned that it is a full agenda and that he is looking forward to an exciting meeting. He briefly reviewed the agenda items and asked everyone to keep the conversations on target.
- 1.4 Executive Director/CEO's Remarks: Tom Costabile welcomed everyone to the meeting and gave thanks for the Fellow award.

May 18th marked the start of his seventh year at ASME and a lot has happened with many good things to discuss. At the close of FY23, ASME had seen more opportunities than challenges and that trend continues today.

Much work has been accomplished this year including DEI, the reorganization of the TEC sector, the Committee on Sustainability, and the new Membership model. The Capital Campaign continues building momentum with another new event later in the week.

The new Membership model is working, and membership is growing. Momentum is building in Asia and India and ASME is financially stable. All indicators show that FY24 will be the best financial performance in our history.

ASME.org continues to evolve with the site being updated every day. The pandemic led to a decline in our metrics but by Q3 2020, our numbers increased. By Q3 2024, we have rebounded to pre-COVID levels. ASME is also on target to meet the strategic objectives per the FY24-FY25 Business Plan including DEI, Digital Transformation and Customer Experience.

The FY25-FY26 Business Plan and Budget will be discussed in the closed session as part of the June 4 Board meeting. As part of it, we will continue to assess our office space needs. In January we sought a smaller space for the D.C. office in same building. It is 2,600 square feet of private offices with a large open area and should be ready for occupancy by the end of June/July. It will reduce lease expenses by two-thirds. Currently, we are in talks with the landlord at 2 Park Avenue a regarding early termination of the lease, resulting in lower operating costs.

Mr. Costabile stated that as the last meeting of the FY24 Board, this meeting is a bit melancholy. He expressed thanks for the support he received from the outgoing Board members, SVPs, and our ECLIPSE Intern. In particular, he expressed gratitude to outgoing President Tom Kurfess for his leadership, strategic thinking, support of DEI and the Committee on Sustainability.

At the first Board meeting of FY25 on Tuesday, he looks forward to working with the new Board. He officially welcomed FY25 Governors Nicole Kaufman Dyess, Janis Terpenney, Bill King and Lester Su.

Mr. Costabile reminded everyone about the upcoming events for this week including the DropMEIn! Event, the Foundation luncheon, all culminating in the Leadership Celebration reception and dinner beginning at 6:00 PM on Tuesday evening.

- 1.5 Consent Items for Action: No requests were received to remove any items from the Consent Agenda.

On motion made and seconded, the Board voted to approve 1.5.1 through 1.5.4 on the Consent Items for Action:

- 1.5.1 Approval of Minutes of Open Session Minutes of April 17, 2024
- 1.5.2 Proposed Appointments
- 1.5.3 Proposed Changes to By-Law B5.4
- 1.5.4 Changes to Society Policies P-4.5 and P-4.6

## **2. Open Session Agenda Items**

- 2.1 YTD Financial Report: Bill Garofalo provided a high-level recap of our fiscal year-to-date financial results through April.

Revenue was favorable versus expenses resulting in a net surplus. Net results were favorable compared to the budget through April driven by both revenue and expense favorability. Revenues were favorable driven by increases in Standards Operations, due to a higher-than-anticipated number of print orders of the Boiler Code along with an increase in subscription royalties. Engineering Operations revenue was favorable compared to budget which was driven by a higher number of activities that occurred. Offsetting this favorability were lower than planned revenues within Programs due to the timing of funding opportunities and in Technical Events due to certain conferences which underperformed this year.

Expenses were favorable to budget mainly due to lower than anticipated legal costs along with lower Facilities related expenses.

Based on the latest forecast, we are projecting a net surplus for FY24.

ASME's investment portfolio improved 8.5% through April FY2024 with gains of 11.4% from the equity investments along with 1.8% in returns from the fixed income investments. The portfolio continues to remain diversified with a mix of 71% equity and 29% fixed-income investments.

The current approved contingency reserve target is 60%. We ended FY23 with a contingency reserve of 104% that has increased to 114% as of the end of April FY24.

- 2.2 H&H Update: Elisabeth Deeb, co-chair of the H&H Committee began by stating how excited she is to discuss the new focus of the Committee. She began by introducing the current Committee members.

Ms. Deeb discussed the Committee's mission, vision and its activities to date. In January 2024 the Committee had its first meeting with the CPP; and from February to the present the focus has been on planning for FY25 and beyond.

The Committee is concluding two projects: The Bentley Nevada Landmark Non-Contacting Eddy Current Sensors and the Ottawa Combined Cycle Power Plant.

For FY25, the Committee may collaborate with SECD on the eFest virtual platform and digital passport; a podcast featuring historians speaking on historical landmarks; video work featuring



sections, people and companies; landmarks aligned to ASME's DEI initiative and leveraging the Engineering and Technology History Wiki (WTHW) partnership.

She concluded by encouraging anyone that is interested in joining the Committee to reach out to her or Karen Russo. (Minutes Appendix 2.2)

- 2.3 Sector Reports: Nicole Kaufman Dyess and Jen Jewers Bowlin (SECD), Lester Su (PA&O), Bob Stakenborghs (TEC), Tom Vogan (S&C), and Rick Cowan (SES) all gave a brief update on their respective sectors including information on their mission, vision, programs, ongoing and future activities, challenges, accomplishments and goals for FY25. (Minutes Appendix 2.3)

- 2.4 Committee on Sustainability: Sean Bradshaw provided a preview of the final definition for ASME's approach to sustainability and presented a high-level implementation plan across years 1, 3 and 5.

He offered that ASME's strategic climate pillars include clean and affordable energy; clean and efficient operations; upskilling the future of the workforce; and sustainable factories, sustainable manufacturing and hard to decarbonize industries. He also went through the four steps of the future state high-level implementation plan for FY25, FY26 and FY29.

Securing organizational buy-in and support from the BOG in year 1 will be essential to execute the goals. Key recommendations include establishing a dedicated sustainability lead and sustainability office; establishing KPI's and incentive structures for staff and volunteers; investing in ASME sustainability knowledge and expertise; and monitoring and engaging with market trends and competitors.

- 2.5 ECLIPSE Intern Project Presentation: The outgoing class began by introducing themselves to the Board and presented an executive summary of their presentation which includes the need for ASME to stay relevant to the newer generations of mechanical engineers. Many of ASME offerings are more relevant to the Baby Boomer generation than to Gen Z, Millennials and GenX'ers. In addition, ASME's programs and activities are largely centered on academia. These factors, among others, may be contributing to ASME's high average member age and declining membership numbers.

The presentation included a past, present and future analysis ranging from how ASME has served the engineering field to the current state of the organization. They found that the U.S. has the most thorough data regarding the future of mechanical engineering including a projected 10% increase in employment for mechanical engineers from 2022 through 2032. In 2022, mechanical engineering was the top degree granted in the U.S. in the engineering discipline.

The group offered some information on shifting worker preferences which include increased openness to changing employers and dissatisfaction with available training opportunities across age ranges. They also listed reasons why workers stay and/or leave their jobs highlighting the difference between GenZ workers and the older generation.

In concluding their presentation, they suggested that ASME modify its offerings to better serve and engage in technical areas to attract younger members. As many mechanical engineering-focused industries are undergoing rapid growth and are not well represented in ASME's portfolio, they asked ASME to update ASME's offerings to catch up and re-position ASME as a strong technical leader. (Minutes Appendix 2.5)

After the presentation, President Kurfess presented certificates to the outgoing ECLIPSE class and introduced and presented badges to the incoming FY25 class.

- 2.6 Comments from Outgoing Board Members, Senior Vice Presidents and ECLIPSE Intern: Before President Kurfess called on the outgoing members, he asked Mr. Costabile to introduce Radhika Dharmadhikari, the new ECLIPSE BOG intern. She is unable to join the Board on Tuesday and he wanted to use this opportunity to introduce her to the Board. Following her introduction, Governors Andy Bicos, Tommy Gardner, Sam Korellis, Wolf Yeigh, SVPs Nicole Dyess and Lester Su, and BOG ECLIPSE intern, Nicole Salloum, all made brief comments about their experiences of working on and with the Board and thanked everyone for the opportunity.

President Kurfess also called on Oscar Barton Jr., outgoing chair of the Nominating Committee (NC), to provide an update on the NC activities. Dr. Barton began by thanking ASME staff, RuthAnn Bigley, Karen Ohland and Mahantesh Hiremath, for their help and advice. He then announced the Governor Nominees for FY25; Carlos Beatty, Jr., Nelia Mazula, Parissa Saboori and Scott Smith.

- 2.7 Reflections on the Past Year: President Kurfess commenced by stating that this past year has been the experience of a lifetime and a privilege to serve alongside friends and colleagues. He thanked the Board of Governors, the Executive Team, the Senior Vice Presidents and staff for their support and perseverance in making his job easier. He thanked Tom Costabile for his friendship, guidance, support and commitment to ASME 's mission and spending countless hours together explaining numerous issues, not only making sure he was successful but in making him a better person in the process.

He offered some words of advice for his colleagues: make sure to stay the course, as consistency is critical in ensuring success. In addition, President Kurfess has learned he never had all the answers but to get the answers, you must reach out, communicate, ask questions and learn so we can move the big picture forward.

One accomplishment during his tenure was kicking off the Committee on Sustainability, a huge issue for humanity and something we must address with expediency. ASME has been working on this for two and a half years and it is a great example of a long-term strategy. He cannot wait to see what the coming years reveal.

ASME has a broader and more diverse team than in the past and DEI drives innovation and broadens the think tank. Over the past year ASME has become stronger; intellectually, strategically and financially and is the leading charge of change. Every President has a tag line and his is the quote by Eric Hoffer. "In times of change, learners inherit the earth, while the learned find themselves beautifully equipped to deal with a world that no longer exists." President Kurfess said that he is a better engineer, leader and person because of his interactions with ASME's colleagues. He took the path as President to help move ASME forward and wound up bettering himself. He expressed his best wishes to the next ASME President and thanked everyone for their support and commitment.

Lastly, he quoted, "If you are the smartest person in the room, you are in the wrong room." During his time as president, he has been in the right room.

**3. New Business**

No new business was presented.

**4. Open Session Information Items**

4.1 Dates of Future Meetings

<b>DATE</b>	<b>DAY</b>	<b>TIME</b>	<b>LOCATION</b>
June 26, 2024	Wednesday	11:00 am – 12:30 pm	Virtual Meeting
July 9-12, 2024*	Tuesday-Friday	9:00 am – 4:00 pm	Florence, Italy
October 1, 2024*	Tuesday	1:00 pm – 3:00 pm	Virtual Meeting
November 17, 2024*	Sunday	8:30 am – 3:00 pm	Portland, OR

\*FY25 Board of Governors

Before adjournment, President Kurfess took the opportunity to announce that shortly after this meeting, all outgoing Governors will receive a Digital Badge via email commemorating their time as a Governor for ASME.

**5. Adjournment**

The meeting adjourned on Sunday, June 2, 2024, at 1:53 PM PDT.



---

Tara McMahan  
Secretary/Treasurer

**List of Appendices**

- 1.5.2. Proposed Appointments
- 1.5.3. Proposed Changes to By-Law B5.4
- 1.5.4. Changes to Society Policies P-4.5 and P-4.6
- 2.2. H&H Update
- 2.3. Sector Reports
- 2.5. ECLIPSE Intern Project Presentation



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

---

**Date Submitted: May 9, 2024**  
**BOG Meeting Date: June 2, 2024**

**To: Board of Governors**  
**From: Committee on Organization and Rules**  
**Presented by: Emily Boyd**  
**Agenda Title: Proposed Appointments**

---

**Agenda Item Executive Summary:**

Proposed appointments reviewed by the COR on May 9, 2024.

**Proposed motion for BOG Action:**

To approve the attached appointments.

**Attachments:** Document attached.

**JUNE 2024 PROPOSED APPOINTMENTS TO ASME UNITS**

<b>Internal Unit</b>	<b>Nominee</b>	<b>Appointment Position/Title</b>	<b>Appointment Term/Category</b>	<b>Appointment Type</b>	<b>History</b>
Committee on Organization and Rules	Hind Hajjar	Member-at-Large	July 2024-June 2027	Initial	Non-voting Member, Committee on Organization and Rules, ECLIPSE Intern
Committee on Organization and Rules	Karen Ohland	Member-at-Large	July 2024-June 2027	Initial	Past ASME President
Committee on Organization and Rules	Parisa Saboori	Member-at-Large	July 2024-June 2027	Re-Appointment	Member-at-Large, Committee on Organization and Rules
Standards and Certification Council	Joel Amato	Member-at-Large	July 2024-June 2027	Re-Appointment	Member-at-Large, Standards and Certification Council
Standards and Certification Council	Craig Hart	Member-at-Large	July 2024-June 2027	Re-Appointment	Member-at-Large, Standards and Certification Council
Standards and Certification Council	James Hoskins	Member-at-Large	July 2024-June 2027	Initial	Various Y14 Subcommittee since 2001
Standards and Certification Council	Robert Stakenborghs	Member-at-Large	July 2024-June 2027	Re-Appointment	Member-at-Large, Standards and Certification Council
Standards and Certification Council	Stephanie Wood	Member-at-Large	July 2024-June 2027	Initial	Various B30 Subcommittees since 2013

The Committee on Organization and Rules recognized that Mr.Stakenborghs also serves as the Senior Vice President of the Technical and Engineering Communities, but did not see there was a conflict of interest with serving on the Standards and Certification Council, as well.

**JUNE 2024 PROPOSED APPOINTMENTS TO EXTERNAL ORGANIZATION**

<b>Internal Unit</b>	<b>Nominee</b>	<b>Appointment Position/Title</b>	<b>Appointment Term/Category</b>	<b>Appointment Type</b>	<b>History</b>
Gear Research Institute	Derrick Black	Representative	July 2024-December 2026	Initial	25 years experience with gearing. He has no ASME Committee History.



## Board of Governors Meeting Agenda Item Cover Memo

---

Date Submitted:	May 9, 2024
BOG Meeting Date:	June 2, 2024
To:	Board of Governors
From:	Committee on Organization and Rules
Presented by:	Emily Boyd
Agenda Title:	Proposed Changes to By-Law B5.4

---

### Agenda Item Executive Summary:

The Standards and Certification Council proposed changes to B5.4 reflecting the new name of the Board on Nuclear Clean Energy, Power and Facilities Codes and Standards and the designation of Chairs and Vice Chairs of its Boards.

Proposed motion for BOG Action:

To adopt changes to By-Law B5.4.

Attachment(s):

Document attached.

#### B5.4 STANDARDS AND CERTIFICATION SECTOR

B5.4.1 The Standards and Certification Sector, under the direction of the Board of Governors, is responsible for the activities of the Society relating to codes and standards, including related conformity assessment programs. The Standards and Certification Sector will maintain a current Sector Operation Guide that will contain operational details of the Standards and Certification Sector that are not in these By-Laws.

Deleted: .1

B5.4.2 The Standards and Certification Sector shall be led by a Council on Standards and Certification (CSC) that consists of the following voting membership: a Senior Vice President as Chair; a Vice Chair; no more than twelve members-at-large; and the Chairs of the Boards that report to the Council, see B5.4.5. The nonvoting membership of the Council shall include ASME staff as appointed by the Executive Director/CEO.

Deleted: 1.

Deleted: for the following Boards: Standardization and Testing, Nuclear Codes and Standards, Pressure Technology Codes and Standards, Safety Codes and Standards, Conformity Assessment, Hearings and Appeals and the Technical and Strategic Advisory Board.

B5.4.3 The incoming Senior Vice President of Standards and Certification shall be nominated by the Standards and Certification Sector Council for appointment by the Board of Governors for a term of three years.

Deleted: 1.

B5.4.4 The twelve members-at-large and the CSC Vice Chair shall be appointed by the Board of Governors, as recommended by the Council on Standards and Certification. The term of each member-at-large and the CSC Vice Chair shall be three years, with the terms of one-third of the members-at-large ending at the close of the second Business Meeting of the fiscal year.

Deleted: 1.

B5.4.5 The following Boards will report directly to the Council on Standards and Certification:

Deleted: 2.1

B5.4.5.1 The Codes and Standards supervisory Boards including the Boards on Standardization and Testing; Nuclear, Clean Energy, Power and Facilities Codes and Standards; Pressure Technology Codes and Standards; Safety Codes and Standards; and Conformity Assessment shall supervise the development of codes and standards within their respective charters, including the development of conformity assessment criteria for applicable codes and standards. The Board on Conformity Assessment shall also supervise the administration of conformity assessment programs.

Deleted: Board on Standardization and Testing, Board on Nuclear Codes and Standards, Board on Pressure Technology Codes and Standards, Board on Safety Codes and Standards, Board on Conformity Assessment, Technical and Strategic Advisory Board, Board on Council Operations, and the Board on Hearings and Appeals.

Deleted: 2.2

B5.4.5.2 The Technical and Strategic Advisory Board, under the direction of the Council on Standards and Certification, will consider and evaluate products and services and make recommendations to the relevant Boards and business units while collaborating with the Strategy Office.

B5.4.5.3 The Board on Council Operations shall approve on behalf of the Council, matters of procedures and personnel, and shall advise the Council on operational matters, including honors, information services, legal considerations, continuous improvement, and planning.

B5.4.5.4 The Board on Hearings and Appeals shall be a forum for appeals resulting from

grievances related to procedural due process in codes, standards, accreditation, registration, and certification activities.

B\_5.4.6 The Boards that report to the Council, shall each consist of a Chair; one or more Vice Chairs, and a membership, as determined by the Council on Standards and Certification.

B\_5.4.7 The Chair of the Board on Council Operations, shall be the Vice Chair of the Council on Standards and Certification. The Chair of the Board on Hearings and Appeals shall be the Vice Chair of the Board on Council Operations.

**Deleted:** 2.3

**Deleted:** on Standardization and Testing; Nuclear Codes and Standards; Pressure Technology Codes and Standards; Safety Codes and Standards; Conformity Assessment and the Technical and Strategic Advisory Board

**Deleted:** shall consist of the Vice Chair of the Council on Standards and Certification as

**Deleted:** Chair

**Deleted:** and

**Deleted:** ,

**Deleted:** t

**Deleted:** as

**Deleted:** , and a membership, as determined by the Council on Standards and Certification. The Board on Hearings and Appeals shall consist of a Chair, and a membership as determined by the Council on Standards and Certification.





## Board of Governors Meeting Agenda Item Cover Memo

---

Date Submitted:	May 9, 2024
BOG Meeting Date:	June 2, 2024
To:	Board of Governors
From:	Committee on Organization and Rules
Presented by:	Emily Boyd
Agenda Title:	Changes to Society Policies P-4.5 and P-4.6

---

### Agenda Item Executive Summary:

Society Policy P-4.5 calls for travel reimbursements for volunteers instead of travel contributions, which have a daily cap. If approved, the existing Society Policy P-4.6 can be sunset.

### Proposed motion for BOG Action:

To approve changes to Society Policy P-4.5 and to sunset P-4.6.

Attachment(s): Society Policy changes.



P-4.5  
4/21

### SOCIETY POLICY

#### TRAVEL EXPENSE ~~REIMBURSEMENT~~

**Deleted:** CONTRIBUTION

#### I. PREFACE

- A. By-Law B4.4.6 states, "All payments for expenditures shall be made by the office of the Chief Financial Officer upon proper authorization, in accordance with the budget adopted by the Board of Governors."
- B. This Society Policy applies to categories of volunteer travel that may either be ASME business specific ~~or related to ASME internal administration.~~
- C. As a learned technical society, ASME expects that members who participate in the activities of the Society will normally be responsible for the expenses that they incur as part of their participation. In return, member participation contributes strongly to the professional growth of the engineer. Employers of ASME members benefit greatly by the professional growth of their employees. Because of these benefits to both employer and employee, it is expected that the member will be able to obtain travel costs from his or her employer, his or her own funds, or from other sources.
- D. This Society Policy permits travel ~~reimbursement~~ for volunteers to those units where funding is available in the budget.
- E. ASME has developed this Society Policy to take care of those cases related to certain specific activities of the Society for which the member is not able to obtain funding for travel from his or her employer or other sources.

**Deleted:** ,  
**Deleted:** , or where ASME has a relationship with an outside entity....

**Deleted:** contribution

#### II. PURPOSE

- A. To explain the budget and expense ~~reimbursement~~ relationship.
- B. To list the limits of expense ~~reimbursement.~~
- C. To establish the rules of qualification for an expense ~~reimbursement.~~
- D. To list the eligibility for travel expense ~~reimbursements.~~

**Deleted:** contribution

**Deleted:** contributions

**Deleted:** contribution

**Deleted:** contributions

**Deleted:** contribution

**Deleted:** contribution

**Deleted:** his

**Deleted:** or

**Deleted:** /

**Deleted:**

**Deleted:** her/

#### III. POLICY

- A. The budget and expense ~~reimbursement~~ relationship.
  - 1. Funding for travel expense ~~reimbursement~~ shall be included in the annual budget of the Society. In selecting the timing and location of meetings, consideration shall be given to the travel cost to ASME, the travel cost to the member or ~~their~~ employer, and the time away from home required of the member. Meetings which can be scheduled to take advantage of low air travel rates shall be encouraged.

**Deleted:** In addition, persons traveling to meetings are encouraged to find the least expensive practical means of travel, where alternative fares are available. Large discount fares with penalties are also encouraged where the probability of cancellation is low. Penalties for cancellation will be paid where authorized by the unit leader. ¶¶

2. Control of travel expenses to ASME under this Society Policy is achieved by careful attention to the budget. During the preparation of the budget, each unit requests a certain amount of travel support for the activities under its control. When the budget is approved by the Board of Governors, ASME travel support for the specific unit activities is established for that budget year.

**Deleted:** expense

**Deleted:** . A request for travel funds for a unit which does not report to a Sector Board should be prepared by that unit and sent to the Committee on Finance before the date on which, according to the budget preparation calendar, budget requests are due from the Sector Board. When the budget is approved by the

**Deleted:** 3.

**Deleted:** Transfer of travel funds in the budget.

**Deleted:** Under rules specified by the Committee on Finance, each Sector Board may authorize transfer of travel funds in its budget from one travel line item to another travel line item.¶

**Deleted:** Subsequent to budget approval by the Board of Governors, Senior Vice Presidents may allow for travel support for new or expanded activities, provided that there is no change to total budgeted travel support for the Sector.¶

**Deleted:** Basis for travel expense contribution.

**Deleted:** 1.

**Deleted:** .

**Formatted:** Numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1" + Indent at: 1.5"

**Formatted:** Indent: Left: 1.5", No bullets or

**Formatted:** Indent: Left: 1.5"

**Deleted:** coach,

**Deleted:** while

**Deleted:** L

**Deleted:**

B. Permissible travel expenses

1. Transportation;

People travelling to ASME authorized meetings are encouraged to find the least expensive practical means of travel, where alternative fares are available.

- a. Travel by air: Large discount fares with penalties are encouraged where the probability of cancellation is low. Penalties for cancellation will be paid where authorized by the unit leader. Otherwise, round-trip coach should be utilized if available. When traveling internationally an upgrade to the next class of travel is acceptable if flying over 5 consecutive hours in a single segment, and if it is budgeted. Pre-approval by the ED/CEO is required. If working under United States government contract, a United States-flag air carrier should be used when practical. Airfares will be reimbursed. Reasonable local fares between the airport and the meeting site will be reimbursed. An original itemized airline receipt, an e-ticket receipt or an internet receipt/statement is required for reimbursement. The receipt must show the traveler's name, the method of payment, and indicate that payment was made.

- b. Travel by public ground transportation: Round-trip rail and/or bus fare will be reimbursed. Local fares between the transportation terminal and the meeting site will be reimbursed. Original receipts are required for rail, taxi, bus, and other modes of transportation if costs are \$25 or more for each occurrence.

- c. Travel by private automobile: The mileage reimbursement rate for travel by private automobile is in accordance with United States Internal Revenue Service Guidelines, plus tolls and parking. Under non-emergency travel conditions, round-trips by private automobile shall not exceed 1600 kilometers or 1000 miles, unless it can be shown to be the most economical means of travel.

3

P-4.5  
4/21

d. Travel by rental car: To be reimbursed at the same rate as for travel by private automobile. However, full costs may be included if no other transportation means are available. Carpooling should be encouraged. Commercial rental vehicles as a primary mode of transportation are authorized only if the rental vehicle is more economical than any other type of public transportation, or if the destination is not otherwise accessible. Vehicle rental at a destination city is reimbursable. Original receipts are required for reimbursement. The rental agreement must clearly show the date and the points of departure/arrival, as well as the total cost. Drivers must adhere to the rental requirements, and restrictions must be followed.

**Deleted:** Car pooling

2. Lodging & Meals

**Deleted:** 2.

**Deleted:** Other expenses.

**Formatted:** Numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 1" + Indent at: 1.5"

Actual reasonable sustenance and hotel room expenses for each day or major part of a day at the meeting or on official Society business. Approval may be given for additional days if this results in an overall reduction in travel reimbursement.

**Deleted:** subsistence

**Deleted:** ,

**Deleted:** not exceeding \$175 per day except as noted below, for each day or major part of a day at the

Where ASME has contracted a room block, the room charge, plus sales/use taxes related to the room itself, will be added to the master account and fully paid for by the sponsoring business unit and its budget.

**Deleted:** contribution.

**Deleted:** its

**Deleted:**

**Deleted:**

Lodging required during any other meetings will be reimbursed at a reasonable rate, if permitted by the budget. Not reimbursed are Airbnb or similar organizations providing accommodations.

**Deleted:** sundries that

**Formatted:** Indent: Left: 1.5"

**Deleted:** .

Reasonable expenses for meals and sustenance that are not offered during the meeting or conference are permitted. Original itemized receipts are required for expenditures over \$25.

**Deleted:** ,

**Deleted:** provided an itemized receipt is attached.

**Deleted:** If the reimbursement schedule of the location is equal to or greater than the ten-city index rate as stated in the "United States Government GSA Rates" (which includes international locations) the maximum ASME contribution would be \$250 per day...

C. Rules for reimbursing a travel expense.

**Deleted:** The ten-city index rate shall be determined annually at the beginning of each fiscal year by the ASME Finance Department, based upon the "United States Government GSA Rates" (which includes international locations). The ten cities will be selected from among recent and future sites for the Congress.¶

1. A travel expense may be reimbursed by ASME under the following conditions:

**Deleted:** paying

a. The person is not able to obtain funding elsewhere.

**Deleted:** contribution

b. The person is among those eligible to receive a travel expense reimbursement because the activity they have completed is a budgeted activity.

**Deleted:** contribution

**Deleted:** paid

**Deleted:** contribution

**Deleted:** he/she/

**Deleted:** has

- c. A request for a travel expense reimbursement is submitted on an official ASME form and in accordance with the rules related to that form.
- d. The Travel Expense Reimbursement Form is approved by a member of the ASME staff authorized to approve it. Final approval of the reimbursement is subject to the approval of the Executive Director/CEO.
- e. Travel Expense Reimbursement Form must be filed within 90 days of the completion of the activity. If the activity occurs at or near the end of the fiscal year, the volunteer must notify their staff support before the end of the fiscal year they intend to file a report so that the staff member can file an accrual for the expense.

**Deleted:** contribution

**Deleted:** travel expense contribution request form

**Deleted:** The travel expense contribution form

**Deleted:**

- 2. Every effort will be made to keep the unit and those eligible for travel reimbursement appraised of the status and availability of travel reimbursement funds for that activity for that period. Travel reimbursement cannot be made after the unit and those eligible have been notified that the travel budget has been committed and/or expended. All persons at the meeting in question shall be considered on the same basis, with the date the expense report is submitted not being a factor.

**Deleted:** contribution

**Deleted:** contribution

**Deleted:** Travel

**Deleted:** contributions

**Deleted:** and

D. Eligibility for travel expense reimbursement.

**Deleted:**

**Deleted:** contribution

Persons participating in the types of activities described as follows may be eligible to receive a travel expense reimbursement whenever travel funds are available in the budget. The budget will be the deciding factor in determining what activities have funding; each unit is encouraged to keep a list of desired activities to budget travel reimbursement in its Operation Guide. Final approval of the reimbursement is subject to the approval of the Executive Director/CEO.

**Deleted:** contribution

**Deleted:** contribution

**Deleted:**

**Deleted:** contribution

- 1. Board of Governors meetings, retreat and indoctrination meetings as determined by the President and available in the budget.

Guests who are specially invited by the President, the Board or the ED/CEO to attend a meeting of the Board of Governors, except guests representing a unit of ASME, who shall be eligible for travel expense reimbursement from the travel budget of the represented unit.

**Deleted:** or by

**Deleted:** contribution

- 2. Meetings of the Standing Committees of the Board of Governors, as defined in the Society By-Laws as determined by the Board of Governors as available in the budget.

- 3. Other travel authorized by the President, the Board of Governors, ED/CEO, as available in the budget.

**Deleted:** or

**Formatted:** Indent: Left: 0.06", Hanging: 1.44"

5

P-4.5  
4/21

4. All Sector Meetings as determined by the appropriate Senior Vice President as available in the budget.

5. Nominating Committee.

Voting Members, Alternates, Consultants (Past Chair and Past Vice Chair or designee), Past President Advisors to the Nominating Committee, as available in the budget.

6. Other organizations.

Representatives or delegates to other organizations as authorized by the President, Board of Governors, or the ED/CEO as available in the budget.

Responsibility: Committee on Finance

Adopted: May 7, 1974

Renumbered from P-2.4: March 24, 1978

**Deleted: 5.**

**Deleted:** ASME representatives to the Accreditation Board for Engineering and Technology to attend meetings of the Accreditation Board for Engineering Technology as determined by the Public Affairs and Outreach Senior Vice President as available in the budget.¶

¶  
6 New members of the ASME/Accreditation Board for Engineering Technology Ad Hoc Visitors List to accompany the ASME member as an observer on one accreditation visit as determined by the Public Affairs and Outreach Senior Vice President as available in the budget.¶

**Deleted: 7.**

**Deleted:** Members designated by the Committee on Ethics to serve on ad hoc ethics investigations committees as determined by the Chair of the Committee on Past Presidents as available in the budget. ¶

¶  
8. Representatives to National Council of Examiners for Engineering and Surveying and the Exam writers to National Council of Examiners for Engineering and Surveying problem writing workshop sessions as determined by the Student and Early Career Development Senior Vice President as available in the budget.¶

¶  
9. The representative to the National Institute for Engineering Ethics as determined by the Chair of the Committee on Past Presidents as available in the budget.¶

**Deleted: 10**

**Deleted:** Secretary

**Deleted:** Alternate Members who have specific assigned duties, incoming Voting Members and Alternates of the Nominating Committee to attend organizational meetings as available in the budget.

**Deleted: 11. Old Guard Committee.**¶

¶  
Old Guard Committee Members to attend the meetings of the Old Guard Committee as available in the budget.¶

¶  
Old Guard judges, contestants and contest winners at Old Guard Contests held during the Congress as available in the budget.¶

¶  
12. ASME Auxiliary.¶

¶  
Officers to attend the Board meetings of the Auxiliary as available in the budget.¶

**Formatted: Level 1**

**Formatted:** Indent: Left: 0.69", Hanging: 0.31", No bullets or numbering

Revised:

April 28, 1978	(editorial change, 6/99)
June 25, 1980	June 7, 2000
June 16, 1982	November 10, 2000
(editorial changes, 8/83)	(editorial change, 3/01)
March 21, 1984	June 12, 2002
June 20, 1986	(editorial changes, 9/02)
(editorial changes, 6/87)	November 22, 2002
December 18, 1987	(editorial change, 3/03)
June 16, 1988	(editorial change, 9/03)
(editorial changes, 11/88)	(editorial change, 6/04)
March 15, 1989	June 12, 2005
(editorial changes, 4/89)	June 18, 2006
December 14, 1989	April 25, 2008
June 6, 1990	(editorial change, 7/12)
(editorial changes, 3/91)	(change to amounts in III.B.2, 1/17)
March 15, 1991	June 5, 2019
December 5, 1991	(editorial change of COF's name (6/20)
September 17, 1992	
(editorial changes, 10/92)	
March 11, 1993	
March 17, 1994	
June 9, 1994	
September 11, 1994	
November 10, 1994	
June 14, 1995	
September 17, 1995	
November 16, 1995	
March 15, 1996	
(June 12, 1996)	
September 20, 1996	
March 14, 1997	
June 11, 1997	
September 19, 1997	
March 13, 1998	
(responsibility reassigned, 11/98)	
(editorial change, 3/99)	
July 1, 1999 (revised at March 12, 1999 Meeting)	
April 14, 2021	



P-4.6  
4/22

## **SOCIETY POLICY**

### **TRAVEL EXPENSE REIMBURSEMENT**

#### **I. PREFACE**

- A. By-Law B4.4.6 states: "All payments for expenditures shall be made by the office of the Chief Financial Officer upon proper authorization, in accordance with the budget adopted by the Board of Governors."
- B. This Society Policy applies to a category of travel which traditionally has been considered as an ASME expense item and is reimbursed more nearly in full than the volunteer travel covered by Society Policy P-4.5, Travel Expense Contribution.

#### **II. PURPOSE**

- A. To explain the budget and expense reimbursement relationship.
- B. To list the limits of expense reimbursement.
- C. To establish the rules of qualification for an expense reimbursement.
- D. To list the positions of eligibility for travel expense reimbursement.

#### **III. POLICY**

- A. The budget and expense reimbursement relationship.
  - 1. Funding for travel expense reimbursement shall be included in the annual budget of the Society.
  - 2. The extent of this travel is governed primarily by administrative decision and budget over-runs due to this travel are handled in the same manner as budget over-runs due to other expenses.
  - 3. In contrast, volunteer travel under Society Policy P-4.5 is by the budget amounts and that travel is no longer supportable when there are no more funds available in the budget.
- B. Basis for travel expense reimbursement.
  - 1. Transportation.
    - a. Travel by air: Large discount fares with penalties are encouraged where the probability of cancellation is low. Penalties for cancellation



will be paid where authorized by the unit leader. Otherwise, round trip coach should be utilized if available. Local fares to and from terminals will be reimbursed. When traveling internationally while working under United States government contract, a United States-flag carrier should be used when practical.

- b. Travel by public ground transportation: Round trip rail and/or bus fare and local fares to and from terminals.
- c. Travel by private automobile: Mileage at the maximum allowable rate under current Internal Revenue Service guidelines, plus tolls and parking. However, for round trips in excess of 1600 kilometers (1000 miles), the contribution shall not exceed \$550.00 under non-emergency travel conditions.
- d. Travel by rental car: To be reimbursed at the same rate as for travel by private automobile. However, full costs may be included if no other transportation means are available. Car-pooling should be encouraged.

2. Other expenses.

Actual subsistence and hotel room expenses and other normal travel expenses, if reasonable and necessary, for each day or part of a day on ASME business. Approval may be given for additional days if this results in overall reduction in travel contribution.

C. Rules for paying a travel expense reimbursement.

- 1. The person is among those eligible to receive travel expense reimbursement as defined later in this Society Policy.
- 2. A request for travel expense reimbursement is submitted on an official ASME form and is in accordance with the rules related to that form.
- 3. The travel expense reimbursement request form is approved by the Financial Officer or by a member of the ASME staff authorized to approve it.

D. Eligibility for travel expense reimbursement.

- 1. The following listed persons are eligible to receive travel expense reimbursement.
  - a. The President of the Society for all travel related to their service to the Society.

- b. The Spouse or partner of the President to attend the Society-Wide Meetings, and other meetings where spouses and partners are normally expected to attend.
- c. A Past President, or other Society member, who is requested to represent the President at a meeting of another organization or at any other special function.
- d. Members of a trial board to attend meetings related to the investigation of charges of misconduct or unethical behavior which have been brought against an ASME member as approved by the President.
- e. Public interest representatives to attend meetings of the Standards and Certification Sector, and its boards and committees; codes and standards representatives to attend international codes and standards meetings; members and designated participants of the Standards and Certification Sector, its boards and committees to attend leadership and training conferences focusing on the legal implications of Standards, and Certification to the Society; all of the above as approved by the Standards and Certification Sector.

Responsibility: Committee on Finance

Adopted: June 16, 1982

Revisions: (editorial changes 4/85)  
(number of Policy changed from P-4.8 to P-4.6)  
(editorial changes 6/87)  
(editorial changes 4/89)  
(editorial changes 9/89)  
September 13, 1990  
December 5, 1991  
March 17, 1994  
(responsibility reassigned 11/98)  
(editorial changes 6/1/05)  
(editorial changes 5/14)  
(editorial changes 1/20/15)  
June 5, 2019  
(editorial change of COF's name in 6/20)  
April 19, 2022



## Board of Governors Meeting Agenda Item Cover Memo

---

Date Submitted:	May 6, 2024
BOG Meeting Date:	June 2, 2024
To:	Board of Governors
From:	William Garofalo, Chief Financial Officer
Presented by:	William Garofalo
Agenda Title:	YTD Financial Report

---

Agenda Item Executive Summary:

A YTD financial report will be provided.

Proposed motion for BOG Action:

**None**

Attachment(s):

**None**



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

---

Date Submitted:	May 13, 2024
BOG Meeting Date:	June 4, 2024
To:	Board of Governors
From:	Elisabeth Deeb
Presented by:	Elisabeth Deeb
Agenda Title:	H&H Update

---

Agenda Item Executive Summary:

A brief update will be provided regarding the History & Heritage Committee.

Proposed motion for BOG Action: None

Attachment(s): PowerPoint

# ASME'S HISTORY & HERITAGE COMMITTEE

# committee members

1 Elisabeth Deeb

2 Nikhil Menezes

3 Joseph Radik

4 Maya Ruslan

5 Julie Kulik

# M I S S I O N

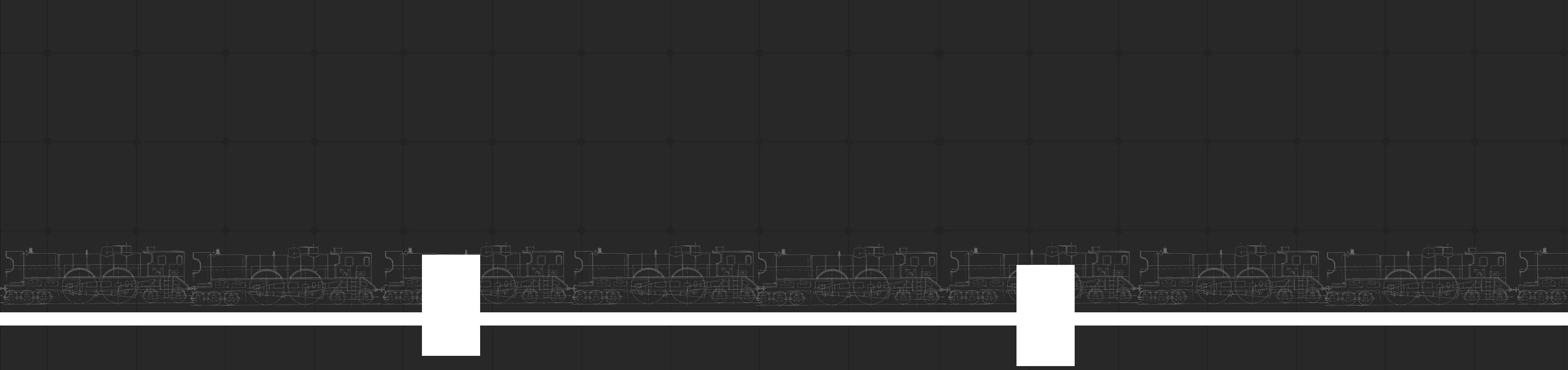
To preserve, celebrate, and promote the rich history and heritage of engineers and innovations, and their impact on society. We inspire current and future generations of engineers. We are committed to ensuring that our historical narrative reflects the diversity of engineers who have contributed to ASME's legacy.

# V I S I O N

The ASME History and Heritage Committee envisions a world where the impact of engineering excellence is recognized and cherished by the public, and the contributions of ASME and its members to the advancement of engineering knowledge and technology are recognized and appreciated by all. We aim to foster an understanding of the historical context of engineering achievements and their significance in shaping our world, emphasizing the diverse voices that have shaped our field. Through education, archival efforts, and engaging storytelling, we aspire to ensure that the proud history of ASME and the engineering community continues to inspire and inform engineering leaders of tomorrow, while fostering a sense of pride, belonging, and equity among our current members.



# Activities to Date



A horizontal timeline is depicted with a white line. Two vertical white bars extend downwards from the line, marking two specific activity periods. The background features a faint, repeating pattern of a steam locomotive.

January 2024  
H&H 1<sup>st</sup> meeting  
with CPP

February - June  
Planning for FY25 &  
Beyond

# Outstanding Landmarks

Bentley Nevada  
Landmark Non-  
Contacting Eddy  
Current Sensors

Karen Ohland  
attending May 16<sup>th</sup>

Ottawa Combined  
Cycle Power Plant

DATE TBD

# FY25

- Possible collaboration with SECD on EFEST virtual platform & digital passport, building on virtual landmarks and online museum.
- Podcast- Featuring historians speaking on historical landmarks and or People in ME.
- Video work featuring section, people and companies.
- Landmarks aligned to ASME's DEI initiatives, more consumer product landmarks.
- Leverage ETHW partnership.

**Thank you**



## Board of Governors Meeting Agenda Item Cover Memo

---

Date Submitted:	May 6, 2024
BOG Meeting Date:	June 2, 2024
To:	Board of Governors
From:	Senior Vice Presidents
Presented by:	Nicole Dyess, Lester Su, Bob Stakenborghs, Tom Vogan & Rick Cowan
Agenda Title:	Sector Reports

---

Agenda Item Executive Summary:

**In lieu of written reports, each Senior Vice President will give a short presentation during the open session of the BOG meeting providing an update on sector activities.**

Proposed motion for BOG Action: **none**

Attachment(s): **none**

# Student & Early Career Development

*Update to the ASME Board of Governors*

June 2024

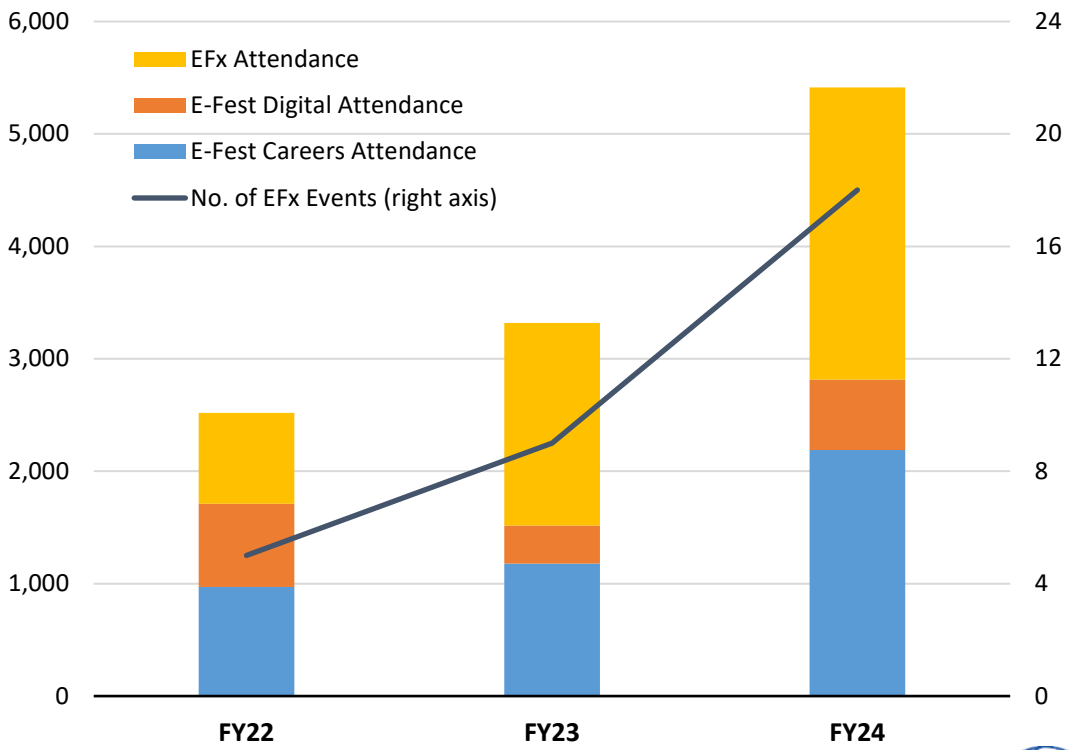
Nicole Kaufman Dyess, SVP (Outgoing)

Jennifer Jewers Bowlin, SVP (Incoming)

# SECD Summary

- **Vision:** To inspire, connect, and empower student and early career engineers globally
- **Mission:** Fostering innovative experiences and growth opportunities for student and early career engineers to contribute and connect with ASME and the global engineering community
- **Strategy:**
  - Expand engagement at in-person events and competitions through local EFX events
  - Retain, grow and evolve E-Fest into a vibrant global digital event brand
  - Work across sectors to link and connect graduating seniors and ECEs to opportunities across ASME

## Key Success: E-Fest & EFX Growth Since COVID





# E-Fest: A global, digital brand



- E-Fest Careers has built a strong brand on career preparation since its launch in FY21
  - FY24 event had 6,550 registrants / 2,190 attendees (33%)
- E-Fest Digital suffered from lack of a unique brand identity, so in FY24 we focused the event on digital competitions, resulting in the **strongest registration since its inception** in FY20
  - 3,450 registrants / 624 attendees (18%) – **up 200% vs. FY23**
  - 326 new schools represented
  - First event-wide use of digital badges
  - Launched new, Autodesk-sponsored competition, XRC: Sustainability Innovations for Ocean Cleanup (shown, left) that drew 400+ global participants, with nine finalists vying for cash prizes and digital badges



# EFx: Igniting interest in ASME globally

Since COVID, Efx focused on local, in-person events

- Event organization led by host student & professional sections to fit needs of local community
- Reintroduced in-person elements of ASME marquis competitions (SDC, HPVC, & IAM3D) in FY23
- Doubled number of global, Efx events in FY24 to 18 events in 10 countries

## Key success: Growing new markets

### CASE STUDY: PAKISTAN

- UET Peshawar – second year hosting
  - FY24 event included IAM3D, SDC, Oral and Elevator Pitch Competitions, impromptu competitions, engaging seminars, and professional section meeting with local ECEs
  - Drew more than 700 attendees each year – **the largest attendance of all Efx events in both FY23 & FY24**
- NUST- CEME, Islamabad – first year hosting
  - Event included career & professional development sessions, Oral and Elevator Pitch Competitions and impromptu competitions
  - Over 700 attendees

From top: Competition winners at Efx Notre Dame University, Beirut, Lebanon; Purdue students fix their competition vehicle at Efx Purdue, West Lafayette, Indiana, US; students take a group photo at Efx UET Peshawar, Pakistan; the ASME student section from the Universidad Nacional de San Agustin, Peru, at the Efx Universidad de Ingeniera y Tecnologia, Lima, Peru; the team from Ecole de Technologie Superieure (ETS) with their eHPVC vehicle at Efx Liberty University in Lynchburg, Virginia, US; a team shows their competition entry at Efx UET Peshawar, Pakistan.



# ECE Programs

## Key success: Providing ECE-focused content at ASME events

- Soft-skills workshops targeting ECEs were well-received at the Power 2023 Conference
- Targeted graduating seniors at ECE-centric sessions at EFX Bogota (November 2023), EFX UET Peshawar (February 2024) and EFX UNCC (April 2024)
- ECEPC is working alongside SAC to put on networking mixer and workshops at Turbo Conference (June 2024)
- ECEPC is providing content, planning and logistical support for Power Conference (September 2024), IMECE (November 2024)

## Digital engagement empowers a global ECE community

- Reaching 20,000+ by curating virtual experience for ECEs via ME Today newsletter, Discord, Social Media

## Ongoing ECE challenges:

- **Conversion and retention:** SECD serves as a lead channel or top of the funnel program; downstream value proposition needs to be compelling to convert and retain both students and ECEs
- **Segmentation:** ECEs are a diverse community, there is no "one size fits all" approach; need to better differentiate segment-specific strategies (e.g., by industry, geography, etc.)
- **ECE Volunteers:** ECEs are very time constrained; ASME really needs to be in their "Top 2" for sustained engagement

# PAO Report to the Board of Governors

Lester Su  
Senior Vice President  
Public Affairs & Outreach

June 2, 2024





# Overview

- Committee on Engineering Education
- Committee on Engineering for Sustainable Development
- Committee on Government Relations
- Committee on Pre-College Engineering Education (K-12)
- ECLIPSE Internship

# Committee on Engineering Education

## **MEEd US 2024**

**March 18-21; Atlanta, GA**

- Over 160 attendees
- Saw a 50% increase from 2023 with a 98% satisfaction rate
- **Key topics:** Artificial intelligence, industry collaboration, curricular needs, mental health, micro-credentialing, and community college transfer pathways
- **New for 2024:** Community college track, HBCU Leader Travel Grant, conference extended to two full days

## **MEEd India 2024**

**January 24: Chennai, Tamil Nadu**

**April 30: Lucknow, Uttar Pradesh**

- **Chennai:** 200+ attendees
- **Lucknow:** 400+ attendees (100 in-person, 300+ online)
- **Key Topics:** Emerging technologies, skill development, increase industry interactions, and incorporate emerging trends into educational programs

## **ECMC Foundation Grant Awarded**

- Received a **\$800,000 grant** from ECMC Foundation to support the CCEP program. Allow to engage with 30 community colleges across US

# Committee on Engineering for Sustainable Development (ESD)

*PAO Report to the  
Board of Governors*



## **UN Science, Technology and Innovation Forum New York, NY; May 9-10**

- ESD and E4C led multiple engagements at the Forum supporting the UN Sustainable Development Goals (SDGs) including:
  - Virtual event on humanitarian relief innovation
  - Panel on scientific cooperation and climate action
  - Innovator Showcase featuring tech innovators and ISHOW Alumni
  - Ecosystem roundtable at ASME HQ with UN representatives

## **Engineering for Change (E4C)**

- E4C has a membership exceeding 75,000 as of May 2024
- E4C's 2024 Fellowship attracted 719 applicants from 71 countries, with a 14% increase in female applicants
- 47 Fellows from 16 countries selected (7% acceptance rate) and are matched to 34 Impact Projects

## **Hardware-Led Social Innovation: ISHOW and IDEA Lab**

- Supported by The Lemelson Foundation, ESD launched global ecosystem roundtables to boost impactful innovation and strengthen regional ecosystems, increasing both the number and success rate of social ventures
- ISHOW India 2024 drew 139 applicants from 13 countries and included an ecosystem roundtable in Chennai

# Committee on Government Relations

## Industry Advisory Board Congressional Outreach Day April 9, Washington, DC

- Collaborated with the Industry Advisory Board to coordinate congressional meetings during their spring meeting in Washington, DC
- 7 IAB/ASME senior leadership met with 23 individual congressional offices
- **Under Secretary of Commerce/NIST Director Laurie Locascio and Rep. Rob Wittman (R-VA), member of the House Select Committee on China were speakers**

## ASME Webinar: CHIPS for ME

- Dr. Eric Lin, Interim Director of the White House CHIPS and Science R&D Office participated in a ASME Member webinar highlighting new opportunities for mechanical engineering research supported by the CHIPS and Science Act

## Open Access

- ASME **successfully advocated** for inclusion of appropriations language on Open Access requiring that OSTP detail the estimated federal financial impact of new Open Access policies.

## ASME 2023-2024 Federal Fellows

- **Kreston Barron**, Space and Science Subcommittee of the Senate Commerce, Science and Transportation Committee (Majority)
- **Dr. Kyle Disselkoen**, Sen. Ben Ray Lujan (D-NM)
- **Dr. Bill Bihlman**, U.S. Department of State in the Bureau of Intelligence and Research, Office of the Geographer and Global Issues and the Office of Cyber and Emerging Technology
- ASME 2024-2025 Cohort to be announced soon.

# Committee on Pre-College Engineering Education (K-12)

## Engagement

- **ASME DropMEIn!** events and related programming reached over 3,900 students during FY24 via 69 events (54 in-person/15 virtual); held first DropMEIn! session in **India** on May 14 engaging 50 high school students interested in pursuing engineering
- A record-breaking 198 students submitted applications for the **2024 ASME INSPIRE Clarke Scholarship** aimed at supporting graduating seniors who intend to pursue a career in engineering. It is anticipated that almost \$60,000 scholarships will be awarded. (Anticipated May 31 announcement).
- ASME K-12 attended the **US Department of Education “You Belong in STEM” session at the White House EEOB** on April 12 where ASME pledged to conduct up to 100 events and engage 4,000 K-12 students in the coming academic year.
- A **“Solution Seekers”** session was held at the Efx event at Northeast Wisconsin Technical College on May 4. Guidance for supporting K-12 sessions has been incorporated into the Efx Playbook.
- ASME K-12 produced **four teacher professional development sessions** championing the distinction between science and engineering within the classroom experience and providing related assets for educators to incorporate into their curriculum.



# ECLIPSE Internship

- Louisa's research project centers around **public policy on E-waste**.
- Researched and wrote a report summarizing the public policy surrounding E-waste and proposing a plan of action for ASME to take a leadership role in this area.
- Met with Tommy Gardner (HP Federal), Chris Connelly (ASME GR), and other ASME volunteers and staff as part of her research.



"There is opportunity for ASME to partner with other professional organizations to develop design standards and certification regarding design for recyclability."

**Louisa Avellar**, PAO ECLIPSE Intern

# Notable Ongoing and Future Activity

## Committee on Engineering Education

- Submitted grant proposal for ~\$4M for a community college apprenticeship program
- Planned awarded of ~\$500k in scholarships/fellowships

## Committee on Engineering and Sustainable Development

- ISHOW Kenya & East Africa Roundtable: Nairobi, June 19-20

## Committee on Government Relations

- ASME Federal Fellows orientation for 2024-25 cohort – Washington, DC, August 26-28

## Pre-College Engineering Education Committee (K-12)

- June: Washington, DC Public Schols STEM Expo event at Univ. of District of Columbia
- July/Aug: Bronzeville Classical School in Chicago; programming for grades 1-8
- July/Aug: DropMEIn! sessions at the Discovery Station STEM Children's Museum, Hagerstown, MD
- July: Microsoft Mentor Camp in Arlington, VA; programming for high school students



*Thank you!*



# ASME Technical & Engineering Communities (TEC) Sector

BOARD OF GOVERNORS MEETING  
JUNE 2024



# Key Accomplishments

## » FY24 Strategic Goals and Accomplishments

- TEC's strategic goals are to optimize the current portfolio of its volunteer groups and conferences, effectively use its resources, and create space to execute on new and emerging technologies while increasing group engagement
- TEC is currently on the path to meet these goals by moving forward with the consolidation of several of its divisions and conferences
- Meetings with affected divisions to discuss the consolidation are underway and plans for co-locating conferences will be in place by the end of FY25
- By the end of FY25 the TEC consolidation will result in the following:
  - 36 Divisions → 29 Groups/Divisions
  - 4 Research Committees → 0
  - 39 Conferences → 30

# Key Accomplishments

## » FY24 Strategic Goals and Accomplishments

- TEC consolidation will create space for forming new divisions to support emerging technologies
  - Preliminary inquiry for support of a Fusion Division is being explored
- Continue to grow and improve our toolkit
  - Tools for effective strategic planning, conducting SWOT analyses, and implementing metrics for healthy divisions have been implemented
  - New Task Forces include:
    - Author registration guidelines review
    - Webtool evaluation and search for new vendor

# Goals for FY25

- » Operationalize the TEC consolidation plan by:
  - Overseeing the merging of specific divisions and conferences
  - Offering a model for merging
  - Working with the volunteer leaders to create action plans, specific milestones, and scheduled checkpoints throughout the FY to ensure progress
- » Implement the task forces on author registration guidelines and webtool

# Challenges

- » Implementing the TEC consolidation project with legacy volunteer leaders who are hesitant to change
- » Managing the TEC portfolio through the change while maintaining financial viability of our conferences
- » Changing a long-standing but archaic structure

Implementing change is a challenge but change is necessary in order to enable progress



Includes Inspection Procedures for  
Electric Traction and Winding Drum  
Elevators, Hydraulic Elevators,  
Inclined Elevators, and Escalators  
and Moving Walks

Pipeline  
Personnel  
Qualification

ASME Code

ASME Y14.5-2009

(Revision of ASME Y14.5M-1994 [E30042])

Dimensioning  
and Tolerancing

Practices  
and Related  
Practices

Practices

# ASME Board of Governors Meeting June 2, 2024 Standards & Certification Sector

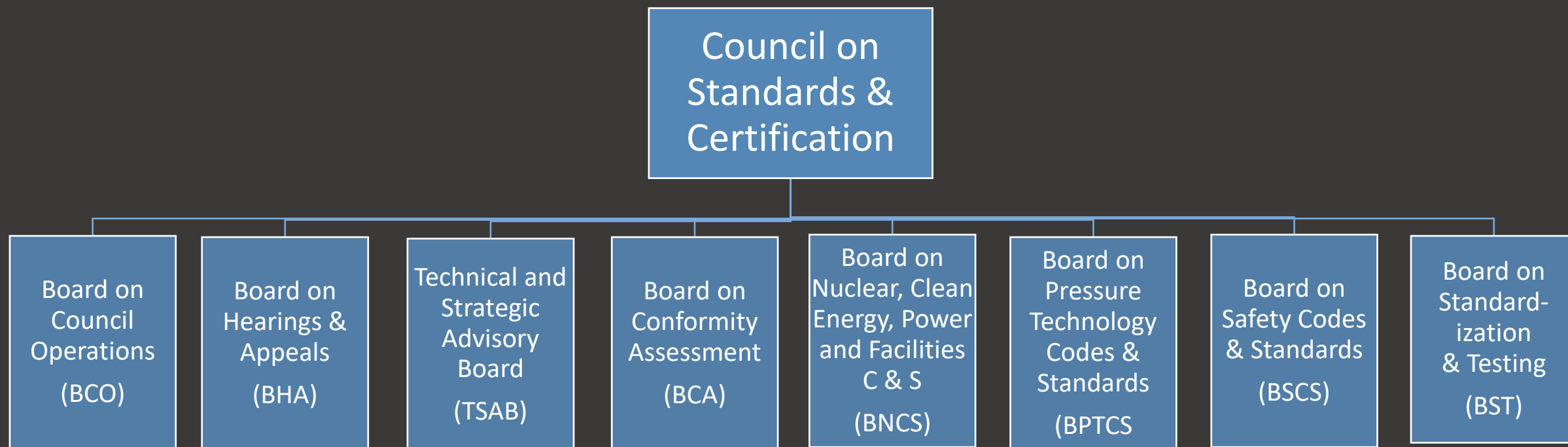
The Standards and Certification (S&C) Sector is responsible for the activities of the Society relating to Standards and Certification, including related conformity assessment programs, new code identification and development, and serving as a neutral convener on an international basis.

*Senior Vice President:  
Thomas Vogan, P.E.*

# S&C Council Membership

- Chair – Thomas Vogan
- Vice-chair – Robert McLaughlin
- Members at Large – 12
- Ex-officio Members – 7
- ASME Staff

# S&C Organization



# Standards & Certification Facts

- Standards Volunteer Membership – 6,224
  - 76% Domestic
  - 24% International
- Standards Groups – 874
- Standards Documents Published – 500 plus
  
- Conformity Assessment Volunteer Membership – 297
- Conformity Assessment Groups - 24

# S&C Sector: Top Accomplishments - FY 2024

- 2023 Boiler & Pressure Vessel Code Edition Issued - July 1, 2024
- Initial issue of Section III, Division 4 – Fusion Energy Devices July 1, 2024
- First Quality Program for Suppliers (QPS) Certificate Issued – October 2024
- Implementation and training for the ASME Standards Development Committee Procedures, Revision 19 – Complete August 6, 2024
- Partnership with NEI and EPRI in our second advanced reactors standards harmonization (ARCSC) workshop - November 30, 2024
- Collaboration with TEC Sector/Nuclear Engineering Division for the second Conference on Advanced Reactor Deployment (CARD) - March 2024
- Technical and Strategic Advisory Board Reorganization

# S&C Sector: Top Accomplishments Continued

- Technical and Strategic Advisory Board Reorganization
- BNCS scope expanded to include Nuclear, Clean Energy, Power and Facilities. Related Standards Committees moved from BST to BNCS
- Several standards publication cycles extended from 2 years to 5 years as a cost savings measure
- Collaboration with TEC Sector to create and staff a new Fusion Technology Division

# Standards & Certification Challenges

- Artificial Intelligence and its relationship to Standards and Certification businesses and products; the opportunities and threats associated with this technology.
- Recovering lost revenue to ASME due to “traveling Code books” being used in Conformity Assessment events. Plans are under development, including communications to AIAs and other stakeholders.
- Digitization of IP



S&C Council oversees all  
ASME Standards  
Committees and  
Conformity Assessment  
Committees

- ASME Codes
- ASME Standards
- Guides and other Technical Bulletins
- Personnel Qualification
- Conformity Assessment (ensuring the code is followed)





## Section Engagement Sector

The Section Engagement Sector (SES), under the direction of the Board of Governors, is responsible for providing resources, support and governance to our Professional Sections and Student Sections, thereby helping to enable our ASME members to engage within their local communities through rich and meaningful experiences.

*Senior Vice President:*  
**Richard Cowan**

*Staff Lead:*  
**Evelyn Taylor**

# SES programs support Professional and Student Sections

- Provide operational support to ensure that the professional and student sections thrive.
- Manage the Volunteer Portal, equipped with the section playbook, leadership directory and DEI toolkit.
- Coordinate the Ambassador Program; Student Leadership Training Conferences.
- Hold monthly leadership calls.
- Develop impactful programming; communicate best practices.



# 2023-24 SE Sector highlights

- Student Leadership Weekends program doubled to 8 events. Over 60 schools were represented with over 360 students registered.
- Professional Sections were encouraged to produce opportunities for student involvement; 20 student members are serving in various leadership roles.
- Section events and activities grew to a five-year high of 323, with over 6800 members attending.
- Requests for grant funding doubled; nearly \$60,000 requested by local sections.
- Section donations increased by \$8,000; over \$58,000 in total contributions.
- To reach members, web-page views exceeded 23,000, a 100% increase over 2023.
- Use of social media platforms expanded via Instagram, Discord, LinkedIn, and WhatsApp; International members have seen a dramatic increase in followers on the various platforms.
- Community Impact Month was launched in April 2024; 27 events were held (e.g., beach/park clean ups, food banks, nature restoration, K-12 STEM) with 15 Professional sections and 18 Student sections participating.





## Board of Governors Meeting Agenda Item Cover Memo

---

Date Submitted:	May 14, 2024
BOG Meeting Date:	June 2, 2024
To:	Board of Governors
From:	Board of Governors
Presented by:	Sean Bradshaw
Agenda Title:	Committee on Sustainability - Report

---

### Agenda Item Executive Summary:

Sean Bradshaw, Chair, Committee on Sustainability (CoS) will provide an overview of the proposed implementation plan related to the ASME Climate Strategy.

Proposed motion for BOG Action: None

Attachment(s): None





## Board of Governors Meeting Agenda Item Cover Memo

---

Date Submitted:	May 13, 2024
BOG Meeting Date:	June 2, 2024
To:	Board of Governors
From:	Royonah Marble, Program Manager, Student and Early Career Engagement
Presented by:	ECLIPSE Class of 2023-2024
Agenda Title:	<b>Preparing ASME for Generation Z (&amp; Beyond)</b>

---

Agenda Item Executive Summary:

The ECLIPSE interns will deliver a presentation on their group project for the 2023-2024 program year. The topic they will be presenting on is “Preparing ASME for Generation Z (& Beyond).”

Proposed motion for BOG Action:

**None**

Attachment(s):

PowerPoint

# Preparing ASME for Generation Z (& Beyond)

ECLIPSE Group Project  
Class of 2023 - 2024

# Introducing The Team



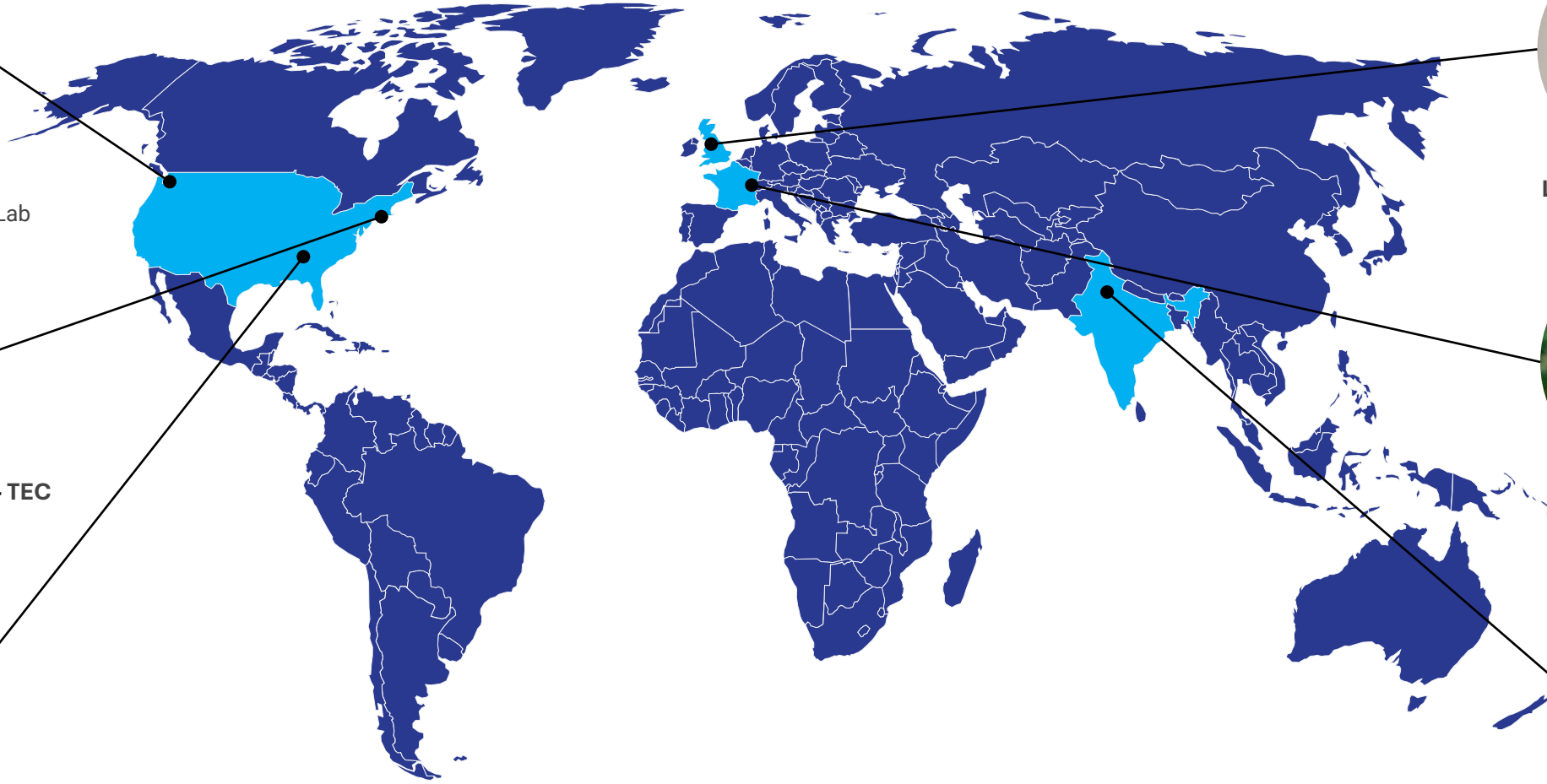
**Luke Placzek - SECD**  
Pacific Northwest National Lab



**Paul Kummannoor Benny - TEC**  
ASML



**Richard Hollenbach III - S&C**  
Exponent Consulting



**Louisa Avellar - PAO**  
SLB



**Nicole Salloum - BOG**  
La Javaness



**Lovepreet Singh - SES**  
Wood Mackenzie

# Executive Summary

- As ASME approaches its sesquicentennial anniversary, it needs to stay relevant to the newer generations of mechanical engineers
- Many ASME offerings are more relevant to the Baby Boomer generation than to Gen Z, Millennials, and even Gen X
- ASME's programs and activities are largely centered on academia
- The value proposition to engineers from industry who are highly technical – both employers and employees – is not always clear
- These factors may be contributing to ASME's high average member age and declining YoY membership numbers and challenges with industry engagement
- This high-level analysis takes a closer look into making **ASME relevant and ready for the engineers from Generation Z and Beyond**



# Outline

- **Past**
  - How has ASME served the engineering field?
  - The Mechanical Engineering industry through the years
- **Future**
  - Emerging Industries
  - Embracing AI
  - Shifting Worker Preferences
- **Present**
  - State of the ME Industry
  - Current State of the Organization

# Past: How has ASME served the engineering field?

- ASME ... to discuss the concerns brought by the rise of **industrialization and mechanization**.
- Started developing the B&PV codes in 1911 and released in 1915.
- Technology development post-WWII during the Space Race and the **rapid expansion** of the Oil & Gas industry helped grow membership, attract quality engagement, and strengthen ASME's position in industry.
- **This strong technical portfolio** was a driving factor in making ASME relevant to its members as well as the wider engineering field.



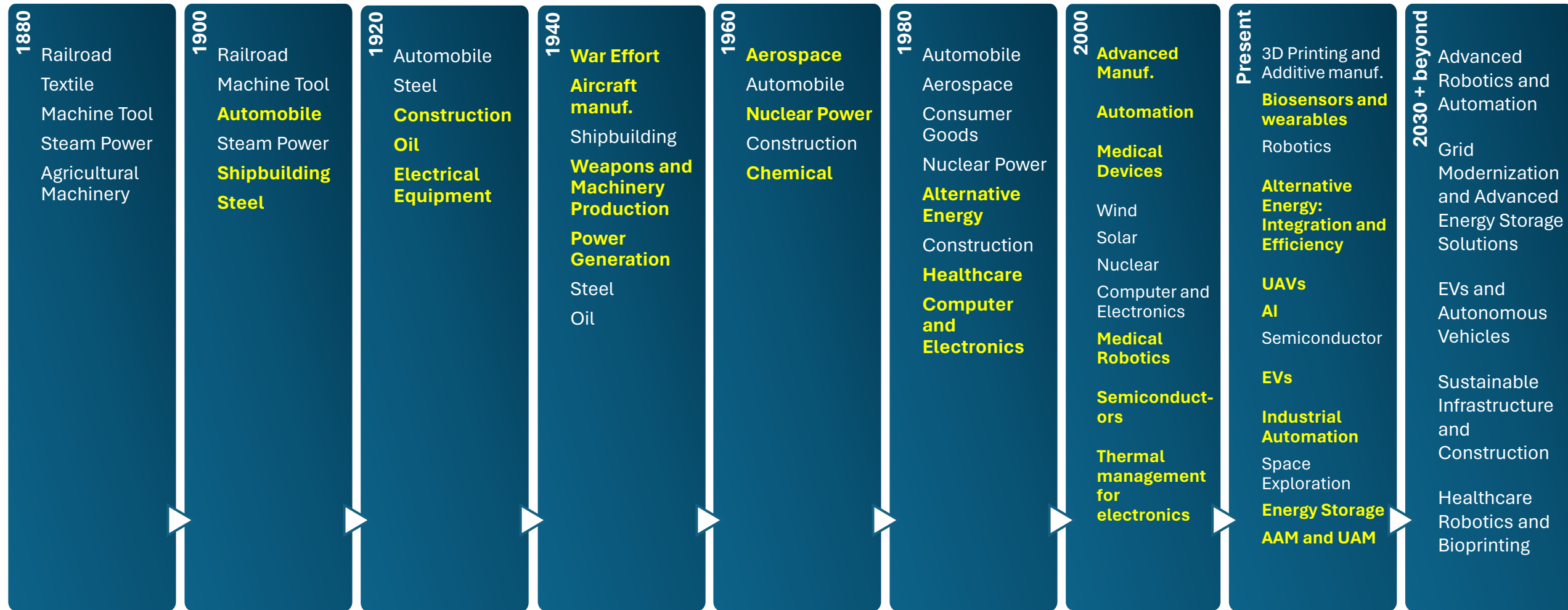
Standardization and  
Safety

Professional  
Development &  
Knowledge Sharing

Promoting the  
Mechanical Engineering  
Profession

Influencing Legislation  
and Public Policy

# Prominent mechanical engineering industries by economic and employment share since 1880.



\*Yellow = New Industries

Source: US Census Bureau, BLS etc.

# Prominent mechanical engineering industries by economic and employment share since 1880.



**Is our technical portfolio up to date with these trends?**

**\*Yellow = New Industries**

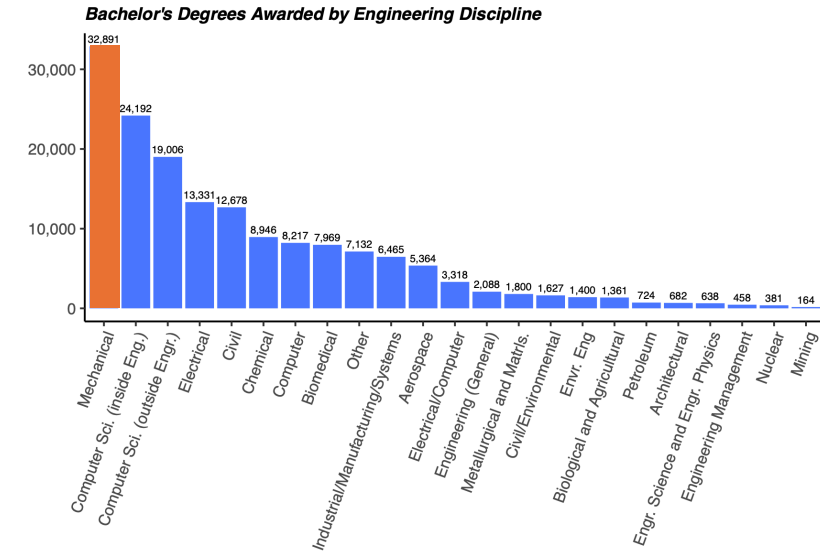
Source: US Census Bureau, BLS etc.

# Outline

- **Past**
  - How has ASME served the engineering field?
  - The Mechanical Engineering industry through the years
- **Future**
  - Emerging Industries
  - Embracing AI
  - Shifting Worker Preferences
- **Present**
  - State of the ME Industry
  - Current State of the Organization

# Future of Mechanical Engineering: By the Numbers

- The BLS predicts there will be roughly 19,200 ME job openings in the US per year for the next ten years
- In 2022 there were 32,891 ME Bachelor degrees granted in the US (from ASEE)

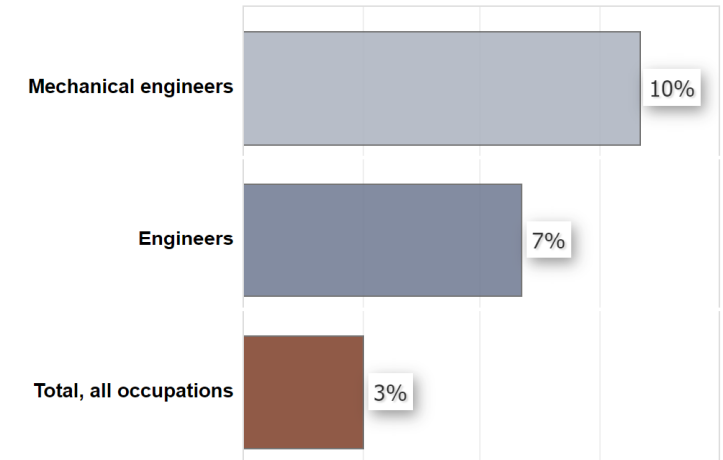


Industries Projected to have the most growth of Mechanical Engineers (from BLS)	Growth % from 2022-2032
Wind electric power generation	67
Electrical equip. manufacturing	50
Warehousing and storage	36
Office administrative services	32
Other food manufacturing	29
Facilities support services	26
Computer systems design	23
Software publishers	22
Beverage manufacturing	22
Management, scientific, and technical consulting services	20

Industries Projected to Employ the most Mechanical Engineers in 2032 (from BLS)	# of MEs in 2032	Growth % from 2022-2032
Engineering Services	51,300	5
Machinery Manufacturing	34,200	12
Research and Development	26,300	14
Federal Government	15,900	7
Aerospace & Parts Manufacturing	13,500	13
Instruments manufacturing	13,200	9
Management of companies and enterprises	9,800	19
Fabricated metal product manufact.	7,600	9
Temporary help services	7,400	10

## Mechanical Engineers

Percent change in employment, projected 2022-32



# Future of Mechanical Engineering: Embracing AI

Generative AI is impacting all fields, even outside of simply text generation:  
(from The State of Generative AI in the Enterprise, Deloitte)

- Text – 83%
- **Code – 62%**
- Audio – 56%
- Images – 55%
- Video – 36%
- **3D Models – 26%**



- On the other hand, big data and AI need to be monitored and verified
- ASME can play a role in writing codes and standards governing the use of AI




# Future of Mechanical Engineering: Embracing AI

**Technology**


**Artificial Intelligence**

Explore




**Cybersecurity**

Explore



**Software Development**

Explore



## Role Guides

Explore foundational content and tools to help you understand, learn, and improve at the skills involved in trending industry roles.

Data Analyst

Cyber Security Analyst

Cyber Security Specialist



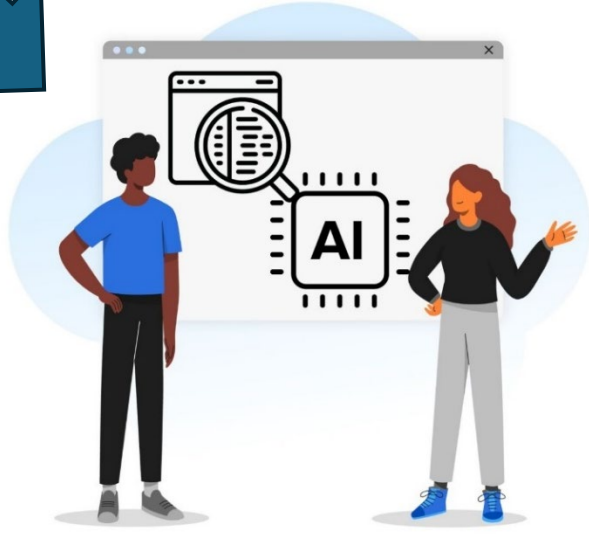
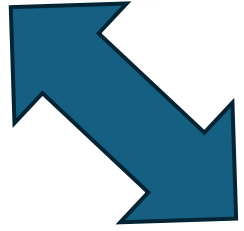
**Training by Mechanical Engineers for Mechanical Engineers...  
not necessarily just on Mechanical Engineering**

# Future of Mechanical Engineering: Embracing AI

**WHAT IS ASME?**



**ASME CODES AND STANDARDS**



# Shifting Worker Preferences

1

Increased openness to **changing employer**

4

**Work-Life Balance** (& Burnout) becomes as important as Salary

2

**Salary Levels** as a decision factor and a source of worry

5

**Diversity, Equity & Inclusion (DEI)** initiatives highly valued by GenZ

3

High priority & importance to job **security** & **flexible** locations/hours

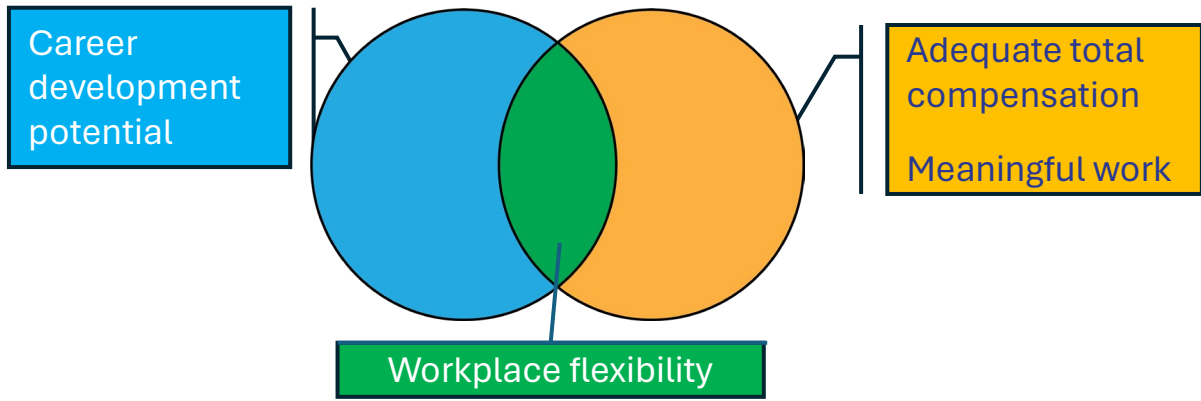
6

Dissatisfaction with available **training opportunities** across age ranges

*Themes 1 & 6 are ideal areas for ASME to develop content of interest to GenZ & Beyond*

# 1 Increased openness to **changing employer**

## Top Reasons why workers **stay at their job**

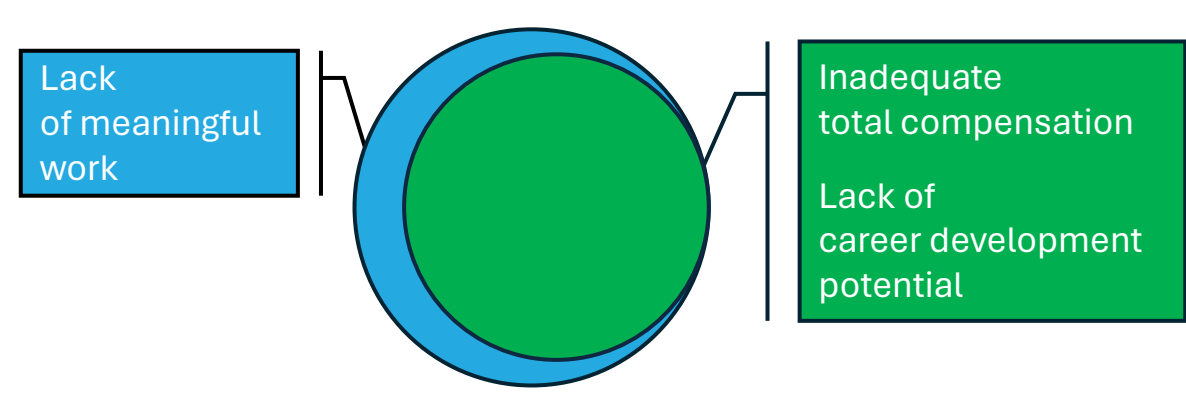


- GenZ (18-24)
- Older Generations (45+)
- Everyone

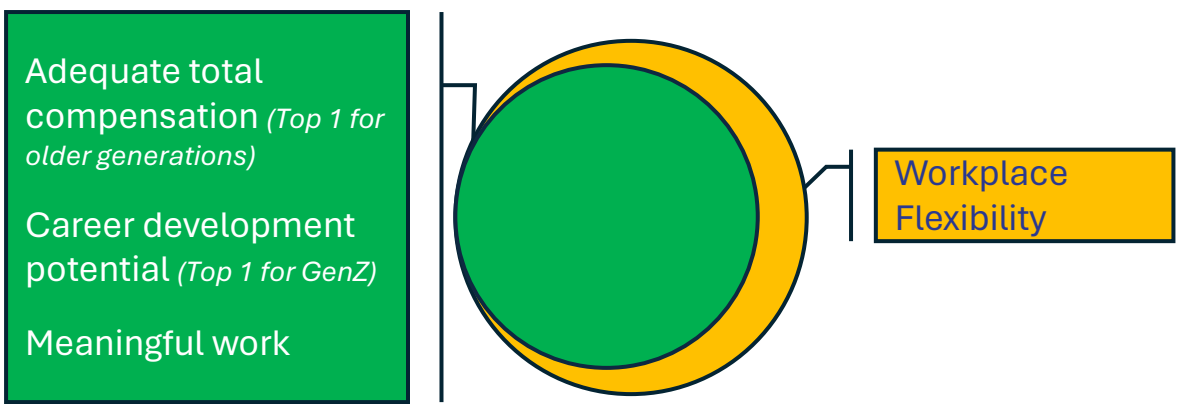
**40%** Workers actively explore opportunities at different companies

**25%** Workers do not see themselves at their current employer in 2 years

## Top Reasons why workers **left their previous job**



## Top Reasons why workers **took a new job**



6 Dissatisfaction with **available training opportunities** across age ranges

**TRAINING DEMAND**

Lack of career development training -> Top 1 reason for job change.

GenZ MEs are trying to gain multidisciplinary expertise.

GenZ MEs are looking for tailored trainings.

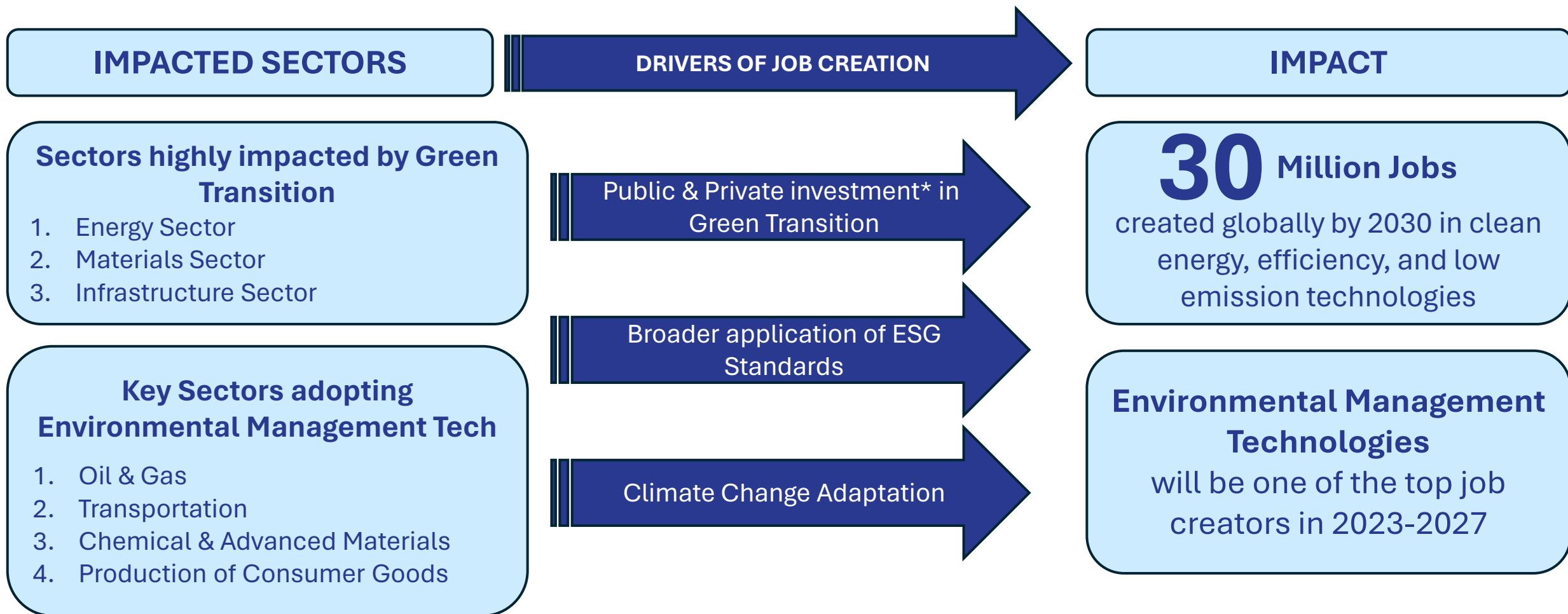
WHAT IF ASME BRIDGES THIS GAP?

- **Trainings for MEs**
- **Networking & Mentoring**
- **Soft skills trainings**

**TRAINING SUPPLY**

**57%** Workers  
pursue training outside of work because company training

# A Macro Trend that is disrupting all **engineering-reliant** sectors is Green Transition.



*\*Since the pandemic, \$1.8 trillion spent globally on green stimulus (vs \$650 billion inflation-adjusted in response to 2008 financial crisis)*

# Outline

- **Past**
  - How has ASME served the engineering field?
  - The Mechanical Engineering industry through the years
- **Future**
  - Emerging Industries
  - Embracing AI
  - Shifting Worker Preferences
- **Present**
  - State of the ME Industry
  - Meeting the Needs of ASME Members



# Present State of the ME Industry

Industry Group	Number of employees in 2014 (177K/350K)	Number of employees in 2021 (257K/350K)	Delta (%) 2014 to 2021
Aerospace products & parts manufacturing	3620	1781	-103
Aircraft & parts manufacturing	3328	10679	69
Architectural, engineering & related services	20812	30092	31
Computer Systems Design	1117	3107	64
Construction	4048	7051	43
Construction, & mining & oil & gas field machinery manufacturing	10452	11475	9
Electric lighting & electrical equipment manufacturing, & other electrical component manufacturing, n.e.c.	2015	2691	25
Electric power generation, transmission & distribution	2059	2151	4
Electronic component & product manufacturing, n.e.c.	5188	7304	29
Engine, turbine, & power transmission equipment manufacturing	6394	8810	27
Machinery manufacturing, n.e.c. or not specified	28546	42243	32
Medical equipment & supplies manufacturing	4133	7201	43
Metalworking machinery manufacturing	5682	6183	8
Miscellaneous fabricated metal products manufacturing	6560	7802	16
Motor vehicles & motor vehicle equipment manufacturing	62824	90240	30
National security & international affairs	2803	5828	52
Navigational, measuring, electromedical, & control instruments manufacturing	2566	4832	47
Scientific research & development services	2696	4426	39
Structural metals, & boiler, tank, & shipping container manufacturing	2757	3094	11

CIE

EPPD

ISPS

MEMS



Content needs to be reflective of the industry

# Present State of the ME Industry: Where do Graduates Go?





<u>MIT</u>	<u>Purdue</u>	<u>Univ. of Michigan</u>	<u>Carnegie Mellon</u>
Aerospace & Defense	Aerospace & Defense	Automobiles & Parts	Aerospace & Defense
Consulting	Automotive	Aerospace & Defense	Consulting
Computer Software	Energy	Transportation	Internet & Software
Energy	Consulting	Civil & Construction	Automotive
Automotive/Transportation	Heavy Equipment	Computer Hardware	Computer Hardware
Manufacturing	Biomedical	Healthcare	Medical Devices
Education	Manufacturing	Consulting	Manufacturing
Engineering	Consumer Products	Software & Computer	Consumer Goods
Pharma	Food & Nutrition	Consumer Goods	Investment Banking

*Data is collected via post-graduation surveys of Mechanical Engineering undergraduate students at respective schools between 2020-2023*

# Is ASME Meeting the Needs of Its Members?

Are our course offerings meeting the needs of all professional engineers?

Minutes Appendix 2.5  
Page 21 of 24

Organization	Revenue (Mil US\$)		Offerings Highlights
	2012	2022	
 78k	99	115	3 Free Online Courses Paid Online Courses 25 Conferences Local Section Engagement
 400k	146	98	1600+ Free Courses Webinars (free - \$10) 1 Annual Meeting
 460k	406	566	IEEE Learning Network Webinars (\$10 - \$40) 300+ Conferences <i>(incl. sub-conferences)</i>
 43k	8	13	1 Annual Meeting Local Section Engagement

**3 courses available now for free:**

- B31.1 Power Piping Code Overview
- B31.3 Process Piping Code Overview
- Introduction to Selection of Valves
- Other courses \$\$\$-\$\$\$\$

**2023 IMECE 1532 attendees, >85% academics**

Is our conference attendee mix representative of the industry mix?

Why are there more SWE mechanical engineers than ASME women mechanical engineers?

- **16k attended SWE22**
  - Significant portion of membership
- **18.97% of members are Mechanical Engineers**
  - 7980 SWE Mechanical Engineers > 6700 ASME Women Engineers

# Conclusion

- In the past, ASME thrived by uniquely serving rapidly expanding industries
- ASME could modify its offerings to better serve and engage in developing technical areas which attract younger members
- The preferences of young engineers need to be considered to create compelling and valuable content they want to engage with
- Many ME-focused industries are undergoing rapid growth and are not well represented in ASME's portfolio
- We need to invest to update our offerings to catch up and re-position ASME as a strong technical leader

## Ideas to Better Serve the Future Mechanical Engineering Industry and Stay Relevant to GenZ and Beyond

1. Prioritize a diverse leadership mix to include professionals from industry, government, and academia.
2. Proactively respond to new and emerging technologies such as AI, ML, Green Tech, etc.
3. Publish a State of the ME industry report highlighting industry trends, with tools for engineers to stay competitive in the labor market.
4. Provide soft skills trainings to keep members employable.
5. Incorporate AR/VR into trainings to stay on top of the new technologies used in engineering.
6. Make ASME technically strong by revitalizing the TEC Sector to be positioned as a strong technical leader.
7. Offer high-quality hybrid conference experiences.
8. Recruit students and early career members and give them exposure to Technical Divisions.
9. Work with ABET to introduce Standards and Codes in college curriculum in more depth.
10. Create a S&C crash course for professors to better support their students who aspire to join industry.

# Thank you!

ECLIPSE Intern Class of 2023 - 2024