

**American Society of Mechanical Engineers (ASME)  
Smart Materials, Adaptive Structures, and Intelligent Systems (SMASIS)  
Division**

Fall Meeting at the 2023 ASME SMASIS Conference, Austin, TX  
Monday, September 11, 2023  
6:30pm – 8:30pm (Local Time, CDT)  
7:30pm – 9:30pm (EST)

Format: In-Person and Remote  
(Remote Meeting Information was Provided to Members and Friends via Email and Calendar Invite)

**MINUTES – DRAFT (Recorded by Eric Freeman)**

1. Introductions (Chair)
  - *Rules discussed.*
  - *Introduced current staff*
  - *Accolades, accomplishments, and fun facts listed.*
2. Attendance and Acknowledgment of Visitors (Chair)
  - *Sign in sheet provided.*
  - *Microphone provided, introductions around the table – name affiliation and member/guest*
3. TEC Sector Overview
  - *Tom Lavertu provided 10 minute overview of TEC (Technical and Engineering Communities). Included organizational structure, description of the sector, strategic objectives, and short-term goals (ensure relevance, guide trends, maintain financial health)*
4. Division Operations
  - 4.1. Review and Acceptance of SPIE 2023 Meeting Minutes (Chair)
    - *Minutes online. Motion to accept. Motion passed, show of hands.*
  - 4.2. A Moment to Review ASME Division Preferences (Secretary)
  - 4.3. New Division Status (EC Advisor)
    - *Strategic retreat organized. Who are we, what do we do, what are the plans for the next few years. Statement placed on slide and read to the division.*
      - *Costs partially covered by TEC*
      - *If you want to go fast, go alone. If you want to go far, go together.*
      - *Community, innovation, impact, mentorship, dei/inclusion, collaboration*
      - *Goals set (SMART)*
  - 4.4. Treasury Report (Treasurer)
    - *Finances discussed. \$83k balance noted.*
    - *Incoming from 2022 was \$38k*
    - *Comparison of SMASIS costs to other conferences presented (SPIE/SciTech).*
      - *Likely that cost will be higher next year – F&B costs keep going up.*
    - *Historical data no longer relevant post COVID – figuring out new trends for budgeting and management.*
  - 4.5. Membership Report (Secretary)
    - *Membership discussed. 162 senate members.*
    - *Attendance statistics. 53% of senate membership attends once per year.*
    - *Division and Senate membership discussed. Division membership must be managed through ASME preferences – make SMASIS #1 choice. 543 members!*
  - 4.6. Website Report (Webmaster)

- *Onur presented website. No major changes since SPIE 2023 update. Many updates to come. TC pages, pictures, and other events.*
  - *Sergio discussed hosting costs. Prices continue to increase.*
  - *Communications discussed. Mark announcements as not-junk.*
- 4.7. Division Newsletter
- *Newsletter is rebooting. Dianne, Sergio, and Janet are involved. Twice a year, provide articles, honors, etc. Wide announcements – perhaps not as informal as internal communications. Visually appealing, short segments. Send word documents, 100 dpi minimum for pictures.*
  - *Will broadcast TC definitions September 30<sup>th</sup>.*
- 4.8. TC Coordination
- *Steven Anton presented idea for reworking TCs within ASME – guidance for operation along the way. Resolve inconsistencies between TCs and provide unified guidelines.*
  - *A poll was created, used to obtain responses from TC leadership, noted that TCs wanted autonomy in rewards but guidance in meetings/recruitment/finances*
  - *Comment from Bjorn – we need a set deadline for TC awards that is consistent, even if the process is autonomous. Janet agreed.*
  - *Rich mentioned strategic retreat, TC emphasis in developing descriptions and strategic plans.*
5. Report on ASME SMASIS Conference (Conference Organizers)
- *James Gibert gave overview of leadership (round of applause). Sponsors and recruiters thanked, (GM, Toyota, Fort Wayne).*
  - *177 papers/presentations, 218 attendees. 10 up from 2022, about even registration numbers. Should put us in the black again this year.*
  - *Still have not recovered from COVID years, but there are improvements.*
  - *Journal paper introduced, 4 were nominated (perhaps more)*
- 5.1. Best Student Paper Hardware Competitions
- *Patrick Walgren provided overview of student activities. New umbrella, schematic. Bucket things into events, outreach, and competitions.*
  - *Paul Motzki discussed making competition a real symposium, noted increased emphasis.*
  - *Vanessa Restrepo - 75 papers self-nominated for best paper award. 6 papers were pre-selected – one from each symposium. Then 3 papers that met criteria (1<sup>st</sup> author student) – rated on given evaluation criteria. Winner will be announced tomorrow.*
    - *Bjorn noted concerns about eliminating papers that did not meet criteria after selecting top 6 – should reverse order*
  - *Summarized additional activities (outreach, mentoring, networking).*
  - *Next conference will be in Atlanta GA. January 2<sup>nd</sup>*
    - *Next technical co-chair announced – Brent Utter*
    - *Diann noted concerns with deadlines. James noted that ASME is very determined to keep the original schedule, despite concerns.*
    - *Barbara said she will bring this up to ASME.*
    - *Noted that the deadlines, while always delayed 2 months, discourage authors initially even if they are not enforced.*
    - *Discussed moving the conference dates from September to October to better accommodate school schedules. (Diann and others)*
    - *Noted paper acceptance must be provided 3 months in advance of the conference for international attendees.*
      - *Discussed rolling deadlines – allow for early review and submissions.*
6. Awards and Honorific Subcommittees

- *Thanked reviewers*
  - *Moving from branch to division level required new processes, still honing the processes.*
  - *Reviewed the amounts and accessories.*
  - *No cash prizes for TC awards the next two years as we monitor financial stability of the new division.*
- 6.1. ASME Adaptive Structures and Material Systems Prize (Ralph Smith)
    - *Aditi Chattopadhyay, ASU announced as winner*
    - *Nominations solicited*
    - *Mary Frecker will become awards chair next.*
  - 6.2. Gary Anderson Award (Vice-Chair)
    - *Shima Shahab awarded*
  - 6.3. Ephraim Garcia Best Paper Award (Vice-Chair)
    - *On the Use of Negative Thermal Expansion Engineered Structures in Flexural-Mode Solid-State Thermoacoustics*
  - 6.4. Division Best Paper Awards (Vice-Chair)
    - 6.4.1. Structures and Structural Dynamics
      - *Enhancing Power Output of Piezoelectric Energy Harvesting by Gradient Auxetic Structures*
    - 6.4.2. Materials and Material Systems
      - *Neuromorphic Metamaterials for Mechanosensing and Perceptual Associate Learning*
7. ASME Fellow Nominations and New Fellows (Marcelo Dapino)
    - *Overview of fellows, nomination process, and deadline provided by Marcelo.*
    - *New fellows recognized*
    - *Marcelo Dapino recognized with ASME Dedicated Service Award*
  8. Status of Division's Technical Committees (Vice-Chair, TC Leads):
    - 8.1. Active Materials and/or Multifunctional Materials
      - *Mechanical integrated circuit materials recognized for award.*
      - *Leadership rotation presented*
      - *Approved two new TC members.*
    - 8.2. Adaptive Systems Dynamics and Controls
      - *Continuing with same leadership team.*
      - *Focusing on recruitment and pipeline.*
      - *Best symposium award – Parametric - Feel Algorithm: Developing a Parametric Vectorfitting Model for Event Localization in Calibrated Structures.*
      - *Still working on best journal paper award*
    - 8.3. Structural Health Monitoring
      - *Recognized best journal paper awards*
      - *Discussed rotation of TC and Symposium. Still a vacancy in symposium leadership*
      - *8 papers, 2 invited speakers*
    - 8.4. Active Material Technology and Integrated Systems
      - *Best Contribution Award – Shape Memory Alloys for Regulating TCS in Space (SMARTS): System Design and Thermal Vacuum Demonstration*
      - *35 presentations, 26 papers, 2 invited talks*
      - *Discussed renaming the TC.*
      - *Brent Utter will need to be replaced in symposium leadership as he ascends to conference leadership*
    - 8.5. Bio-inspired Structures and Systems
      - *15 technical publications, 19 presentations, 2 invited speakers*
      - *New leadership elected, Cody Gonzalez will be new co-chair for symposium.*

- *Two best paper awards – Neuromorphic materials, best symposium paper award – the role of compliance in generating traveling waves on a bio-inspired flexible propulsor.*
- 8.6. Energy Harvesting
- *New officers elected*
  - *Best paper – Dynamics and power limit analysis of a galloping piezoelectric energy harvester under forced excitation.*
9. Report on Other Conferences
- 9.1. SPIE Smart Structures/NDE conference (Conference Chair)
- *Encouraged people to attend remote meeting.*
- 9.2. Report on AIAA/ASME/AHS Adaptive Structures Conference (Conference Chair)
- *Janet mentioned SSDM conference – looking to collaborate.*
- 9.3. Report on International Conference on Adaptive Structures & Technology (ICAST) (Conference Chair)
- *ICAST moved to May 20-22, located at Georgia Tech. Negotiation and final information underway for hotel, etc. (Eturk)*
10. New Division Senate Membership (Vice-Chair)
- *Process and requirements discussed.*
  - *Guests dismissed*
  - *Noted confusion on requirement for attending division meetings one year prior. Proposed adding line to template to specify meetings attended.*
  - *Concerns voiced about premature selection to senate – senators required sustained evidence of commitment.*
  - *Noted that the template does not emphasize or require service.*
  - *After discussion, agreed to accept all candidates but then refine the approach so that service requirements are more clearly defined to avoid this situation in future years.*
  - *Vote called*
  - *Unanimous in person, 17 yes, 2 no, 3 abstain on Zoom.*
11. Division Leadership Ascension
- *Thanked Rich Beblo for service*
  - *Described roles for secretary (data management, record keeping), vice chair (awards, contacts, most time consuming), chair (lead division, most time consuming, schedule, on time, on task).*
12. New Officer Nominations and Vote
- *Eric Freeman nominated secretary elected.*
13. Other Business (Chair)
14. Adjourn and Reminders