

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

Fall Meeting at the 2022 ASME SMASIS Conference, Dearborn, MI
6:00 - 7:30 pm (EST), Tuesday, September 13, 2022

Format: In-Person (Room: Alexandria Ballroom) and Remote (via Zoom)

ATTENDING MEMBERS

Abdessattar (Abdu) Abdelkefi, Amir Ameli, Steven Anton, Andres Arrieta, Richard Beblo, Onur Bilgen, Diann Brei, Constantin Ciocanel, Manuel Collet, Francesco Danzi, Marcelo Dapino, Alper Erturk, Mary Frecker, Eric Freeman, Kazuko Fuchi, Farhan Gandhi, James Gibert, Sumit Gupta, Reginald Hamilton, Guangbo Hao, Ryan L. Harne, Daniel J. Inman, Nancy L. Johnson, Jovanova Jovana, Amin Karami, Bjoern Kiefer, Wonhee Kim, Soobum Lee, Suyi Li, Wei-Hsin Liao, Jonathan Luntz, Russell Mailen, Michelle Makhoul Mansour, Mohammad Malakooti, Uwe Marschner, Patrick Musgrave, Oliver Myers, Joseph Najem, Brittany Newell, Christopher Niegrecki, Mostafa Nouh, William Oates, Roger Ohayon, Alexander Pankonien, Michael Philen, Feng Qian, Johannes Riemenschneider, Reza Rizvi, Nathan Salowitz, Dimitris Saravanos, Andy Sarles, Janet Sater, Gary Seidel, Fabio Semperlotti, Yi-Chung Shu, Ralph Smith, Henry Sodano, Ji Su, Zhenhua Tian, Serife Tol, Shahrzad Towfighian, Brent Utter, Srinivas Vasista, Ya Wang, Lingyu (Lucy) Yu.

ATTENDING FRIENDS

James Allison, Greg Ehlert, Jeff Hill, Daewon Kim, Sergio L. dos Santos e Lucato, Katibeh Mohammad, Francis Phillips, Li-Chih Tsai, Patrick Walgren.

MINUTES

1. Introductions (Chair – Rich)
 - 1.1. Welcome to SMASIS.
 - 1.2. Round of applause for Angelique (sp) from ASME
 - 1.3. Lucy's: Excited to join all of us virtually.
2. Attendance and Acknowledgment of Visitors (Chair)
 - 2.1. Rich: Welcome to new students/postdocs, encouraged
 - 2.2. Onur: Use Zoom to enter roster information
3. Review and Acceptance of SPIE 2022 Meeting Minutes (Chair)

- 3.1. Minutes are provided via the zoom.
- 3.2. No discussion. Motion to approved. 2nded. Approved unanimously

4. A Moment to Review ASME Division Preferences (Secretary)

- 4.1. All friends and members should be sure to update their profile to be a member of SMASIS division within online ASME account.

5. Amin Karami and James Gibert: thanked Mary J. for her hard work and presented her with a gift.

6. Division Business

- 6.1. New Division Launch (Diann)

- 6.1.1. SMASIS is now officially a Division of ASME. We are different than other divisions; we are interdisciplinary, we blend basic research and industry tech; it's our "special sauce."

- 6.1.2. Executive Committee – Leadership. Consists of Chair, Vice-Chair and Secretary (voted in, and will ascend) + Treasurer is a 3-yr position (voted in); will train with Janet. All 6 TCs will appoint 1 representative to sit on the EC.

- 6.1.3. Steering Committee – past chairs; will help set strategy.

- 6.1.4. Technical committees – report directly to EC of Division. 6 TCs, as before.

- 6.1.5. Ad hoc committees – for awards, etc.

- 6.1.6. What was *Branch* is now *Senate*.

- 6.1.7. Any ASME member can add themselves to the Division. The "Senate" is the voting body, comprised of active/engaged members.

- 6.1.8. Entry way to become active is the TC. Senate membership not required to join a TC. Only with sustained engagement/activity, can someone be nominated/voted to join Senate. To hold a voting or leadership position, you must be an ASME member and affiliated with SMASIS Division (does not have to be primary affiliation).

- 6.1.9. Becoming a division provides greater access to ASME resources and programs that can benefit and allow us to promote/represent our community at national and international levels.

- 6.1.10. Officially started as a Division in July 2022. Financials, budget, website, communications, infrastructure, successful leadership summit completed. To do: update membership, recruit. Develop a strategic plan. Vote in a new Vice-Treasurer. Develop an annual workflow/template of deadlines for awards, processes, conferences, competitions, etc. Encouraged folks to offer ideas, volunteer for new roles.

- 6.2. Other Division Business (Chair)

- 6.2.1. Round of applause to Barbara, Janet, Onur, etc.

7. Treasury Report (Treasurer)

- 7.1. Started division with \$50k from Aero division. That will be used for awards (best paper awards) and honorariums (e.g., placques, certificates, etc.). Ephraim Garcia award will be pushed to become an official ASME award.

- 7.2. Voluntary contributions from affiliated members come directly to SMASIS Division.

- 7.3. No cash awards (for TC awards) until 23-24 until SMASIS accounts are higher (\$125k is target). FY 22 (july 1- june 30) papers are not awarded until FY 23. Janet will work with Bjorn Kiefer (vice-chair) to manage awards. All emails go to Bjorn who will communicate with Janet.
- 8. Report on ASME SMASIS Conference (Conference Organizers: Amin Karami, James Gibert, Sherry Towfighian)

- 8.1. Thanks to prior chair, sponsors (GM, Fort Wayne Metals, Polytec, U Mich, NextGen), all symposium chairs, student event organizers (Kazuko, et al), ASME staff (Mary, Lori, Barbara).
- 8.2. 2022 Stats: 178 submissions; 168 presentations; ~220 registered attendees. We are in the black for SMASIS 2022! Pretty good distribution of submissions across symposium (max = 35, min = 17)
- 8.3. New Tech co-chair: Johannes R.
- 8.4. SMASIS 2023 – Austin TX; publication schedule: Abstract submission 2/15/23, Full paper: 3/22/23,...Final papers: 6/9/23.
- 8.5. Best student competitions: 15 submissions to paper comp., 4 to hardware comp.
- 8.6. SMASIS 2023 - journal quality papers will receive expedited review in ASME journals. Reviewers are encouraged to rate papers for being journal quality. Journals will review/publish papers prior to conf. proceedings so that accepted journal papers will be cited properly. Feedback: 1) conference papers may not meet quality of journal publications. The hope is that this will motivate more, and higher quality submissions. 2) still possible to route papers to JIMSS?
- 8.7. Special thanks to 2022 SMASIS leadership: Amin, James and Sherry for leadership during a turbulent year.

9. Membership

- 9.1. Membership Report (Secretary)

9.1.1. 147 members, 76 friends, 63 former members.

9.1.2. Large % of members are attending meetings!

9.1.3. ASME does allot some funds to Division from affiliated memberships.

9.2. New Officer Nominations and Vote

9.2.1. Vice-Chair: will work with Janet for 1 yr; Janet will roll off Treasurer. on 3rd year, new vice-chair will come on to learn, etc.

9.2.2. Nominations: Diann Brie nominates Cornel C. (accepted). Motioned/2nded/voted: unanimous.

9.3. New Division Membership (Vice-Chair)

9.3.1. Questions:

9.3.1.1. Can zoom attendance count if nominee is not present upon nomination? Zoom is allowed to count. 2 meeting attendances required.

9.3.1.2. Branch rules/procedures have become Senate rules.

- 9.3.1.3. Does length of ASME membership matter?
- 9.3.2. Nominees:
 - 9.3.2.1. Mohammed Malakooti (U Washington) - nominated by J. Domann/R. Rizvi.
 - 9.3.2.1.1. Nomination Passed
 - 9.3.2.2. Guobiao Hu (Nanyang Tech U) - nominated by Serife Tol
 - 9.3.2.2.1. Defer membership to SPIE meeting
 - 9.3.2.3. Chunbo Lan (Nanjin U of Aeronautics and Astronautics) - nominated by Serife Tol
 - 9.3.2.3.1. Nomination passed
 - 9.3.2.4. Salvatore Armeduri (Centro Italiano Research Aero) - nominated by Johannes R.
 - 9.3.2.4.1. Nomination passed
 - 9.3.2.5. Vanessa Restrepo (Texas A&M). - nominated by Pablo Tarazaga
 - 9.3.2.5.1. Nomination passed
 - 9.3.2.6. Farhan Gandhi (RPI) - nominated by Johannes R.
 - 9.3.2.6.1. Nomination passed
 - 9.3.2.7. Michelle Mansour (U. Tennessee) - nominated by Andy Sarles
 - 9.3.2.7.1. Nomination passed
 - 9.3.2.8. Doug Nicholson (Boeing) - nominated by Johannes R.
 - 9.3.2.8.1. Doug attended SMASIS, but could not attend Division meeting due to travel.
 - 9.3.2.8.2. Criteria for attendance relaxed; nomination passed.
 - 9.3.2.9. Wonhee Kim (Kim) - nominated by Nancy Johnson
 - 9.3.2.9.1. Nomination passed.

10. Awards and Honorable Subcommittees

- 10.1. ASME Adaptive Structures and Material Systems Prize (Ralph Smith)
- 10.2. ASMS Best Paper Awards (Vice-Chair)
 - 10.2.1. Structures and Structural Dynamics
 - 10.2.2. Materials and Material Systems
- 10.3. Ephraim Garcia Best Paper Award (Vice-Chair)
- 10.4. Gary Anderson Award (Vice-Chair)
- 10.5. ASME Fellow Nominations and New Fellows (Marcelo Dapino)
 - 10.5.1. Described nomination requirements/materials and deadlines.
 - 10.5.2. New Fellows: Ya Wang, Manuel Collett, Umesh Gandhi

10.6. SPIE Fellow Nominations and New Fellows (Norm Wereley)

11. Status of Division's Technical Committees (Vice-Chair, TC Leads):

- 11.1. Active Materials and/or Multifunctional Materials (Chair: John Gallagher and Co-Chair: John Domann)
 - 11.1.1. Cornel: TC meeting held; approved bylaws/updates; 35 submissions to Symp 1; healthy attendance; plan for leadership succession.
- 11.2. Adaptive Systems Dynamics and Controls (Chair: Suyi Li and co-Chair: Sriram Malladi)

11.2.1. Manuel Collett: awarded best journal paper and best symposium paper; 26 presentations (up from 19 in 2021); met via Zoom on 9/1/22; new leadership teams elected for TC and symposium)

11.3. Structural Health Monitoring (Chair: Daewon Kim, and Co-Chair: Tyler Tallman)
11.3.1. Daewon: new leadership for TC and symposium partially identified. Discussed TC/symposium name change. Feedback from Diann: to form/dissolve/rename TCs require Division approval and some protocol.

11.4. Active Material Technology and Integrated Systems (Chair: Andres Arrieta and co-Chair: Srinivas Vasista)

11.4.1. Andres: ~25 attendees to TC meeting, discussed new division procedures; interest from TC to lead new special sessions at SMASIS 2023. Leadership succession identified. Healthy TC with expectations to increase participation/activity.

11.5. Bio-inspired Structures and Systems (chair: Jovana Jovanova co-chair: Joseph Najem)

11.5.1. Jovanna – increased SMASIS presentations/papers; new leadership identified for TC and Symposium. Plans for Engineering Living Materials Special Session for SMASIS 2023.

11.6. Energy Harvesting (Chair: Sherry Towfighian and co-Chair: Shima Shahab)

11.6.1. Serife: TC met a week prior to SMASIS 2022; discussed attendance to SMASIS, SPIE, etc.; 17 submissions to SMASIS, but several papers were withdrawn. 10 presentations given. Best paper award given.

12. Report on Other Conferences

12.1. SPIE Smart Structures/NDE conference (Conference Chair)

12.2. Report on AIAA/ASME/AHS Adaptive Structures Conference (Conference Chair)

12.3. Report on International Conference on Adaptive Structures & Technology (ICAST) (Conference Chair)

13. Website Report (Webmaster)

13.1. Breaking records. Keep on clicking.

13.2. New division website is active. credit to Barbara Z., et al., TC sub-pages to be developed; will reach out to obtain materials.

13.3. ASMS Group/Branch website is working and still updated.

13.4. Sergio: Update/change the domain to reflect new Division status?

14. Other Business (Chair)

14.1.1. Janet: Aerospace Division is starting a new conference on SDM topics; encouraged folks to consider this new conference in addition to/place of SciTech

15. Ascension

15.1. Lucy – introduced/welcomed Rich Beblo as new division chair.

16. Adjourn and Reminders

16.1. Update ASME membership/affiliation on website.

16.2. Please update/finalize Symposium chairs so that this information can be added to new SMASIS conference flyer.