

**American Society of Mechanical Engineers - Aerospace Division
Adaptive Structures and Material Systems Branch**

Meeting at SPIE Smart Structures/NDE 2019
Denver, CO

Tuesday March 5th, 6:00 to 8:00 pm, Silverton Salon 1, Embassy Suites

Attendees

Members:

Julianna Abel, Steven Anton, Andres Arrieta, Hiroshi Asanuma, Richard Beblo, Diann Brei, Matthew Bryant, Constantin Ciocanel, Manuel Collet, Marcelo Dapino, Austin Downey , Alper Erturk, Marco Fontana, Mary Frecker, John Gallagher, Victor Giurgiutiu, NamSeo Goo, Benjamin Grisso, JaeHung Han, Ryan L. Harne, Darren Hartl, Jared Hobeck, Daniel J. Inman, Nancy L. Johnson, Jung-Ryul Lee, Suyi Li, Kenneth Loh, Oliver Myers, Hani Naguib, Chris Niezrecki, HaeYoung Noh, Mostafa Nouh, Morvan Ouisse, Michael Philen, Reza Rizvi, Donghyeon Ryu, Nathan Salowitz, Dimitris Saravanos, Gary Seidel, Yi-Chung Shu, Ralph Smith, Henry Sodano, Ji Su, Vishnu Baba Sundaresan, Tyler Tallman, Lihua Tang, Serife Tol, Shahrzad Towfighian , Rocco Vertechy, Aimy Wissa, Wen-Jong Wu, Lei Zuo, Haifeng Zhang

Friends:

Pauline Butaud, Enu Jung Chae, Edwin Hernandez, Yabin Liao, Paul Miles, Joseph Schneider, Kourosh Shoele, Yunlong Zi

AGENDA

1. Attendance and acknowledgment of visitors (Branch Chair: Darren Hartl)
 - 1.1. **Darren: Welcome. Introductions.**
2. Review and acceptance of SMASIS 2018 meeting minutes (Darren Hartl)
 - 2.1. **Darren: Any corrections? Accept. All said I.**
3. Membership Report (Acting Branch Secretary: Michael Philen)
 - 3.1. Circulation of roster for updating
 - 3.2. Breakdown of membership
4. Treasury Report and Status Update (Branch Treasurer: Michael Philen)
 - 4.1. *From Janet via email.*
 - 4.2. **“FY20 budgets will likely be due by the end of June. I will need projected budget info for next year for ASMS and for the TCs by mid-May. I am attaching a current budget so you have something to work with.**
 - 4.3. **I will need an up-to-date list of all officers for the Branch and every TC also by mid-May; that will also have to be submitted to ASME by the end of June. I am attaching a spreadsheet for that with current info, some of which will likely need to be updated. Please make sure to include the term of service.**
 - 4.4. **For any awards, certificates of appreciation, etc. to be presented at SMASIS by ASMS or the TCs, I will need the attached spreadsheet filled out completely (use the appropriate sheet), along with an award format file (examples attached) by no later than July 30, 2019.**
 - 4.5. **Also, please emphasize that all award documentation should be coming through you to me, not directly to me.”**
5. Update on Branch bylaws (Darren Hartl)
 - 5.1. **Darren: We had vote at SMASIS 2018 to update bylaws. We will form a committee or small group to start the updates.**

6. Update on Aerospace Division by Aerospace Division Executive Committee Chair (Ralph Smith)
 - 6.1. Ralph: FY20 budgets are likely due by the end of June so Janet needs the Aero Division budget, including SMASIS, by mid-May. Billy Oates attended the ASME Group Leadership Development Conference (GLDC) in San Antonio, TX, on March 1-3. One of the items that was discussed is the ASME Conference Financial Model in which target revenues will be closely monitored. If a conference meets its revenue targets and creates a net surplus, 50% of this revenue will be shared with the Division's Segregated Account. Should a deficit occur, the same percentage will be used to address the deficit. As part of the Integrated Operation Plan (IOP), conferences must have at least four Common Conference Elements by 2019 and all six by 2021. SMASIS is presently doing a good job addressing this.

7. Status of Branch's Technical Committees (Branch Vice Chair: Gary Seidel)
 - 7.1.1. Gary: People need to be a Branch member before officially joining TC
 - 7.2. Discussion of the relationship between TC and Branch membership (Gary Seidel)
 - 7.3. Active Materials and/or Multifunctional Materials (Chair: Gary Seidel and co-Chair: Cornel Ciocanel)
 - 7.3.1. Gary: We worked on updating the TC, revising by-laws and TC leadership plan. We approved the TC best paper guidelines. Cornel is chair, Reza is co-chair, John Gallagher is secretary
 - 7.4. Adaptive Systems Dynamics and Controls (Chair: Manuel Collet and co-Chair: Julianna Abel)
 - 7.4.1. Julie: We confirmed leadership. Voted on TC best paper. Split money between 1 journal and 1 conference paper.
 - 7.5. Structural Health Monitoring (Chair: Haeyoung Noh and co-Chair: Daniel Cole)
 - 7.5.1. Haeyoung: All TC members will have to be nominated to the Branch by fall. Voted on new leadership. Nathan will be co-chair. Updated the bylaws. New committee formed for best paper awards – split award to \$350 and \$150.
 - 7.6. Active Material Technology and Integrated Systems (Chair: Onur Bilgen and co-Chair: Johannes Riemenschneider)
 - 7.6.1. Onur: AMTIS is established.
 - 7.7. Bio-inspired Structures and Systems (Chair: Eric Freeman and co-Chair: Andy Sarles)
 - 7.7.1. Aimy: Updated bylaws. Not sure about the leadership right now.
 - 7.8. Energy Harvesting (Chair: Steve Anton and co-Chair: Amin Karami)
 - 7.8.1. Steve: 12 members in attendance. Elected 2 new members. Elected new secretary. Leadership transitions in July. Approved a change to the bylaws that allows people to be members on both TC and branch. Added language that TC friends would be members pending branch membership. Announced winner 2019 energy harvesting award.
 - 7.8.2. Diann: There needs to be some volunteer work before being voted on TC. Maybe there is a sponsoring TC for nomination of TC friends. I motion after tonight that TC in addition to nominator requires sponsorship. Branch nominations require both nomination and sponsorship from TC voted at meeting. Motion. Second.
 - 7.8.3. Steve: TC would vote during TC meeting to vote to sponsor branch meeting nominee, then vote for the nominee during branch meeting.
 - 7.8.4. Darren: Motion for Darren to take a look at the changes to the bylaws regarding the membership process.

8. Report on ASME SMASIS Conference (Mohammed Daqaq, Oliver Myers, and Andy Sarles)
 - 8.1. Oliver: Thanks Billy for 2018 for leadership. Thanks to all symposium chairs and co-chairs. Seek nominations for student and young professional development. Ralph and I working on moving higher quality papers to journal. There was a short discussion on whether presentation-only is good for conference less publications vs. greater attendance.
 - 8.2. Summary of SMASIS 2018— San Antonio, TX
 - 8.3. Discussion of plans for SMASIS 2019— Louisville, KY
 - 8.3.1. Oliver: Gave overview of the hotel and location.

9. Report on SPIE Smart Structures/NDE conference (Zoubeida Ounaies, Greg Reich)
 - 9.1. Summary of SPIE SS/NDE 2019
 - 9.1.1.Z: Gave overview of symposium chairs. There is about 11% drop in attendance. Overall conference is going well. Next year in Anaheim CA and Long Beach in 2021. Most likely be in Long Beach for 2021 and 2022.
 - 9.2. Report on Specific Conferences at SPIE
 - 9.2.1. Active and Passive Smart Structures and Integrated Systems XIII (Chair: Alper E Turk; co-Chair Jae-Hung Han)
 - 9.2.2. Behavior and Mechanics of Multifunctional Materials and Composites XIII (Chair: Hani Naguib; co-Chairs: Ryan Harne & Aimy Wissa)
 - 9.2.3. Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems (Chair: Jerome Lynch, co-Chairs: Kon-Well Wang, Hoon Sohn, & Haiying Huang)
 - 9.2.4. Smart Materials and Nondestructive Evaluation for Energy Systems and Industry 4.0 (Chair: Norbert Meyendorf; co-Chair: Kerrie Gath)

10. Update on SPIE Best Student Paper competition (John Domann)
 - 10.1. John: 50 abstract submissions. Judges were a huge help this year.

11. Report on AIAA/ASME/AHS Adaptive Structures Conference (Darren Hartl)
 - 11.1. Summary of SciTech 2019 - January 7-11, 2019, Manchester Grand Hyatt, San Diego, CA
 - 11.1.1. Darren: In San Diego this year, in Orlando next year, downtown but not Kissimmee. 50 abstracts submitted. 45 accepted. 88%.
 - 11.2. Plans for SciTech 2020 – January 6-10, 2020, Hyatt Regency Orlando, Orlando, FL

12. Report on International Conference on Adaptive Structures & Technology (ICAST) (Hani Naguib)
 - 12.1. Summary of ICAST 2018 – October 1-3, 2018, Seoul, Korea.
 - 12.1.1. Hani: 93 conference presentations. 112 participants, 13 countries
 - 12.2. Plans for ICAST 2019 – October 7-11, 2019, Concordia University, Montreal.
 - 12.2.1. Hani: Gave a brief overview of conference location and topics. Plans for 2020 Italy.

13. Discussion on TC Best Paper Awards. (Gary Seidel)
 - 13.1. Gary: Every TC has \$500. Encouraged to use for awards.

14. Honoric Subcommittee
 - 14.1. ASME Adaptive Structures and Material Systems Prize (Ralph Smith)
 - 14.1.1. Ralph: 9 nominations. Strong pool. Committee has set a recommendation to ASME. Cannot announce until ASME approves.
 - 14.2. ASMS Best Paper Awards (Gary Seidel)
 - 14.2.1. Gary: 5 submissions for materials and 4 for the structures side. Would accept additional submissions.
 - 14.2.2. Structures and Structural Dynamics (Gary Seidel)
 - 14.2.3. Materials and Material Systems (Gary Seidel)
 - 14.2.4. Ephraim Garcia Best Paper Award (Gary Seidel for Mohammad Elahinia)
(Nominations still being accepted and encouraged; to be announced at SMASIS 2019)
 - 14.3. Gary Anderson Award (Gary Seidel)
 - 14.3.1. Gary: Ryan Harne is winner. Applause.
 - 14.4. ASME Fellow Nominations and New Fellows (Marcelo Dapino)
 - 14.4.1. Marcelo: Want to recognize our members here. He went over requirements and steps for nominations. Mike Philen given award.
 - 14.5. SPIE Fellow Nominations and New Fellows (Norm Wereley)
 - 14.5.1. Marcelo: Went over steps to become fellows. Deadline sept. 15th. 3 individual lined up for the sept. deadline. Contact Norm for nominations.
 - 14.6. SPIE Smart Structures Lifetime Achievement Award (SPIE SS/NDE co-Chair: Z. Ounaies)

14.6.1. Z: Remind 2019 award winner is Diann Brei. Great achievement. You will get email through Branch for nominations.

15. Branch web site report (Darren Hartl for Onur Bilgen and Sergio Lucato)

15.1. ASME Website status update

15.1.1. Darren: Onur is doing a great job, website up to date.

15.2. Website/domain/YouTube report for the Meeting at SPIE

Marcelo: Toyota looking to create early career grant - \$50k. Idea to initiate long-term relationship. Idea is smart materials so it aligns well with this community. Idea is to have this person create a session at SMASIS 2020 related automotive.

16. Nomination of new Branch members (Darren Hartl)

16.1.1. Darren: All approved. All said "I".

16.2. Special case: Yi-Chung Shu (Steve Anton)

16.3. Dr. Tyler Tallman (Suyi Li)

16.4. Dr. Serife Tol (Alper Erturk)

16.5. Dr. Hae Young Noh (Oliver Myers)

16.6. Dr. Nathan P. Salowitz (Oliver Myers)

16.7. Dr. Donghyeon Ryu (Oliver Myers)

16.8. Dr. Austin Downey (Victor Giurgiutiu)

16.9. Dr. Lei Zuo (Steve Anton)

17. Adjourn

17.1. All approved. Meeting adjourns.