

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

Meeting at SPIE 2016  
Las Vegas, NV  
Tuesday, March 22, 2016 from 6:30-9:30pm in the Valencia Room

**AGENDA**

1. Attendance and acknowledgment of visitors (Mohammed Daqaq)  
Meeting called to order at 6:40  
MD mentions that, as we begin, we struggled to organize the meeting given the difficulties with ASME and SPIE. Rob Whitner was acknowledged for all of his help.
2. Review and acceptance of SMASIS 2015 meeting minutes (Mohammed Daqaq)  
Diann Brei moves, Marcelo E. seconds, passes unanimously
3. Membership Report (Darren Hartl)
  - 3.1. Circulation of roster for updating
  - 3.2. Breakdown of membership  
As of this meeting, there are 37 friends and 141 members on the official roster. However, there are a very large number of inactive members. It is suggested that we begin to look at ways to clean the roster. The current membership breakdown is as follows: 102 academic, 24 industry, 10 government lab.
4. Treasury Report (Cornel Ciocanel)
  - 4.1. Status update  
Red numbers are not a problem. Assumption is that they will be covered as the funding from the last SMASIS is repaid. Janet and Nancy are working with Cornel to correct the current posted losses.
  - 4.2. Acknowledgement of Waiver Donations (Zoubaida Ounaias, Billy Oates, and Gyuhae Park)  
Really important that we come together at this time to support the branch, so your donations are especially important.
5. Update on ASMS Branch Ascension to ASMS Division with the ASME.
  - 5.1. Background (Mohammed Daqaq).  
Mohammed mentioned that the leadership accepted our proposal to become a division
  - 5.2. Proposal to Aerospace Division (Zoubaida Ounaias)  
Zoubeida gives an update on the steps to take toward becoming a division. The subcommittee assigned by Mohammed proposed a financial framework to make the ascension to division. Currently, the AERO division has 4 groups, of which ASMS has 6 tracks.  
Zoubeida also summarized the activities coordinated by the ASMS branch: Best student paper award, Best student prizes, etc.  
ASME is changing its way of operation. The custodial accounts will no longer be active and we will have to request money from the Division to conduct all activities. The proposal is to endow the ASMS awards, because they will no longer be a budget item for us. Gary Anderson award is endowed already. Any funds remaining will be split 50/50 between us and the aero division.  
Finally, we will revisit the agreements with ASME. No MOU is anymore standing between ASME and SPIE.
  - 5.3. Open discussion  
A request for an extension was requested through the summer to finalize the changes needed.  
Mohammed is granting the extension and opens the floor for discussions.  
No questions brought forward
6. Update on Aerospace Division by Aerospace Division Executive Committee Chair (Nancy Johnson)

Biggest topic is potential new division, and how it affects existing AERO division...needs to remain strong. Endowment is also critical. NJ will be stepping down. Need to have nominations to fill two positions.

Diann: We have had a practice of past chair of Branch to Division, so I nominate Billy. We also roll up SMASIS chair, so I nominate Ralph.

MD: Checks to see if nominations are accepted. They do. Asks for other nominations. None brought forward. Voted in unanimously, no discussion. Billy and Ralph now part of the AERO Div Exec Division. No further questions for Nancy.

7. Status of Branch's Technical Committees (Oliver Myers)

7.1. Active Materials and/or Multifunctional Materials (Chair: Henry Sodano and co-Chair: Jayasimha Atulasimha)

Henry was missing, DH: Discussed meeting this morning, bylaws and how to go forward

7.2. Adaptive Systems Dynamics and Controls (Chair: James Gibert and co-Chair: Rocco Vertechy)

Elected a new secretary. Also discussed their own best paper award, which will be awarded at SMASIS. They addressed operating procedures in future years and special issue in JIMSS

7.3. Structural Health Monitoring (Chair: Lingyu "Lucy" Yu and co-Chair: Andrew Swartz)

(Lucy) Addressed leadership, which remains the same as above. Organizing a short course at Los Alamos. Organizing special issue in JIMSS. Working with Mike and Rob to sponsor students to participate in short course.

7.4. Active Material Technology and Integrated Systems (Chair: Phillip Evans and co-Chair: Chai Hutapea) (Previous Chair: Eric Ruggiero and co-Chair: Ganesh Krishnamoorthy)

John Lutz: There were no members of the committee present at the lunch meeting other than John

7.5. Bio-inspired Structures and Systems (Chair: Vishnu Sundaresan and co-Chairs: Andrew Sarles, Pablo Tarazaga)

No one present at Branch meeting

7.6. Energy Harvesting (Chair: Adam Wickenheiser and co-Chair: Matthew Bryant)

Adam: Working on 2<sup>nd</sup> annual best paper award to be presented at SMASIS. Adam will roll off, Matthew up, and

8. Update on SPIE Best Student Paper competition (Constantin Ciocanel and Darren Hartl)

DH: The prize for this competition is funded by SPIE, and their support is gratefully acknowledged. This year were 30 acceptable extended abstracts considered for the competition. Seven judges reduced these to 16 top abstracts, and additional judges helped in reducing this to the 6 finalist chosen. They represent the US and Europe. Cornel and I thank Onur, Bjoern, Jordan, Alex P., and Zhu. The competition will be held in Marquis from 1:30-4:00 tomorrow. Finally, made a comment imploring more of the young members of the TC to volunteer for judging. It is a very useful and important experience.

9. Report on SMASIS conference (Ken Loh and Ralph Smith)

9.1. Summary of SMASIS 2015

Speaks to slides. Notes in particular that presentation only is still acceptable. Puts up a picture of all the organizers and thanks them

9.2. Discussion of plans for SMASIS 2016—Stowe, VT

The Eastern Snowbird. A NE ski resort. The best way to get there is through Burlington. Boston is a harder drive. The Pioneer Banquet will be at the Trapp family lodge, and Mary arranged. Introduces the new organizing committee and describes transitions

One key thing about this year is the proximity in time and location to ICAST. One weekend and 2hr45min drive between them.

Discusses the publication timeline. Abstract timeline on time as usual. But the full paper submission is really soon after. We are a little faster at review and ASME gives us a tighter schedule than most conferences. We will also have the usual student activities (competition, networking, game night) and the HS events that have been successful. There is a proposal to NSF to fund other NEW student activities. We are needing ideas for this. We are as always in need of help...judges, etc. Already looking at next locations in the West. Snowbird is an option. San Diego is as well.

10. Report on SPIE Smart Structures/NDE conference (Jay Kudva, Greg Reich)
 

Greg gives the update based on Jay's notes. There is a discussion of SPIE going back to San Diego, but there needs to be coordination with SMASIS since that is an option for the next SMASIS (2017)

  - 10.1. 2015 – Symposium Chairs: Jay Kudva and Theodoros Matikas; Symposium Co-Chairs: Tribikram Kundu and Greg Reich
  - 10.2. Report on Specific Conferences at SPIE
    - 10.2.1. Active and Passive Smart Structures and Integrated Systems IX (Chair: Gyuhae Park co-Chair: Alper Eturk)
 

Gyuhae: Only one cancelling this year. We are looking for one more co-chair, so we are asking for anyone interested to join us.
    - 10.2.2. Behavior and Mechanics of Multifunctional Materials and Composites IX (Chair: Nakhiah Goulbourne, co-Chair: Hani Naguib)
 

Hani: Same average papers as last year 52, 44 accepted, 10 sessions on generally the same topics as last year. Marcelo Dapino: Is there a plan for leadership ascension? It seems that these names have been here a long time. Nakhiah Goulbourne seems to have been in this position for a long time. I think as DH said earlier that the newer members need to step up and help.
    - 10.2.3. Industrial and Commercial Applications of Smart Structures Technologies IX
 

(Chair: Steven Griffin, co-Chair: Alan L. Browne,) Chair and co-Chair not present. No report.
    - 10.2.4. Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems
 

(Chair Jerome Lynch, co-Chairs: Kon-Well Wang and Hoon Sohn)
 

Kon-Well: Don't have data, but very similar to last year (attendees and participation).
11. Report on AIAA/ASME/AHS Adaptive Structures Conference (Ed White)
  - 11.1. 2016 - January 4-8, 2016, Manchester Grand Hyatt, San Diego, CA
 

About 40 papers presented, which is typical.
  - 11.2. 2017 - January 9-13, 2017, Gaylord Texan, Grapevine, TX
 

As an update on the TC, gives membership breakdown. Meet at SciTech and SMASIS. Primary responsibility is SciTech conference, which is slowly growing but relatively small compared to SciTech. Key session was led by Greg Reich and then there was a panel.
12. Report on International Conference on Adaptive Structures & Technology (ICAST) (Alper Erturk)
  - 12.1. 2015 – Summary of the 26th International Conference on Adaptive Structures and Technologies (ICAST 2014) (October 14-16, 2015) in Kobe Fashion Mart in Kobe, Japan.
 

Alper: I did not attend, but I do have the minutes from the meeting. 60 presentations, 30 posters, etc. as per normal. 2017 will be in Krakow, Poland. Next location was already discussed
  - 12.2. 2016 – October 3-5, 2016, Lake George, NY, USA.
13. Report on International Union of Theoretical and Applied Mechanics (IUTAM) Symposium (Chris Lynch)
 

Chris introduces Faxin Li. We can be flexible with the dates, and it will be a small focused conference. Topic will focus on mechanical/electric coupling and electric active materials. We will have invited speakers with talks over 30 min. We hope to welcome you to Beijing.
14. Honorific Subcommittee
  - 13.1 ASME Adaptive Structures and Material Systems Prize (Norman Wereley) Seung-Bok Choi awarded for 2015 and presented as 2015 SMASIS Keynote; Previous winter presented the keynote lecture at SMASIS 2015. We are now working on the new nomination, since there is a new process as this is now a society award. You must fill out the ASME nomination form and have 5 letters of reference.
  - 13.2 ASMS Best Paper Awards (Oliver Myers)
    - 13.2.1 Structures and Structural Dynamics (Report by Wei Hsin Liao)

WHL: The result this year: the winner is the paper by Kon-Well and his team on folding origami, published in SMS.

13.2.2 Materials and Material Systems (Report by Nakhiah Goulbourne)  
 Oliver for Nakhiah: Winner is team by Leng and coworkers on selectively active shape memory polymer materials.

13.2.3 Gary Anderson Award (Oliver Myers)  
 Oliver: Darren Hartl was selected as the winner.

13.2.4 Ephraim Garcia Best Paper Award (Mohammad Elahinia)  
 Could not present the award this year due to lack of nominations. Call remains open and will be presented at SMASIS. Diann asks what exactly the criteria and focus are. MD reads from the solicitation for nominations. MD mentions that we don't have current bylaws for this award, so this year MD had to form a special committee to handle nominations, etc.

13.2.5 ASME Fellow Nominations and New Fellows (Marcelo Dapino)  
 Marcelo: There are 3000 fellows worldwide, and this year we have 3 new fellows for this group. Reminds that 10yrs membership and 10 yrs professional practice as an engineer to be eligible. One of the three, Ken Cunefare, should have been announced last year but was not. Second was nominated by Norm W., and the winner is Zoubeida O. (She is presented with certificate, pin, letter, etc.) The third winner is Henry A. Sodano (likewise presented award items).

13.2.6 SPIE Fellow (new item):  
 Norm makes an announcement regarding this possibility, the requirements, etc.  
 MD: We are very lucky to have such active and strong leadership to help promote the young faculty.

13.2.7 SPIE Smart Structures Lifetime Achievement Award (Jay Kudva)  
 Jim Hubbard was the winner this year. Norm: Want to also mention that Jim was one of the very first NAE members from our community.

14 Branch web site report (Onur Bilgen)  
 Not here, but MD notes that Onur has been doing a great job.

14.1 LinkedIn group and Twitter (Barbar Akle)  
 Not much happening, there are almost no members (15 members on LinkedIn). So strongly encouraged members to join. Also considering starting a ResearchGate group. Also looking for the email distribution list or another way to share the invitation.

14.2 Facebook page (LeAnn Faidley)  
 Haven't seen LeAnn in a few meetings.

15 Nomination of new Branch members (Oliver Myers)–

15.1 Dr. Lihua Tang (nominated by Wei-Hsin Liao)  
 Gives a review of CV. Very active researcher, attending SPIE last three years, etc.

15.2 Mr. James Mabe (nominated by D. Hartl)  
 Any other comments? Diann: Jim has been coming for years, he is a fundamental researcher, and I am surprised that he is not a member.  
 Ken moves to approve, Norm seconds, passes unanimously.

16 Adjourn  
 Adjourned 7:59.