

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

Meeting at SPIE 2015

San Diego, CA

Tuesday, March 10, 2015 from 7:00-10:00pm in the Windsor/Hampton room

AGENDA

1. Attendance and acknowledgment of visitors (William Oates)
7:10pm the start
Everybody got introduced
2. Review and acceptance of SMASIS 2014 meeting minutes (William Oates)

No corrections to the meeting
Minutes approved
3. Membership Report (Cornel Ciocanel)
 - 1.1. Circulation of roster for updating
 - 1.2. Breakdown of membership

Missing info on the membership but we will update it.
4. Treasury Report (Oliver Myers)
3402.78 starting balance
\$2190.83 ending balance
 - 1.1. Thanks for waiver donations (Kara Peters, Wei-Hsin Liao , Nakhiah Goulbourne, William Oates)
 - 1.2. Status and update
5. Update on Aerospace Division by Aerospace Division Executive Committee Chair (Norm Wereley)
6. Discussion of the ASMS Branch status and option to roll out into independent Division within ASME (William Oates)

SMASIS and subdivision

How is one ASME impacting you at executive level?

Huge change, but not anticipated outcomes.

We are growing but do we want to become an independent division?

Do we want to continue as a branch as is or we want to become a division?

Branch acting as a subdivision for about three years; it is a good time to become a subdivision.

Become a division because the former bylaws were canceled. They are guidelines at this point.

Motion on the floor to request the executive committee to propose to the aero division to become a division. Chris Lynch moved to become a division. Dimitri Lagoudas seconded to become a division
Floor opened to comments:

What are implications on the budget to become a division?

George Akhras - Are there conflicts with other divisions?

Vote: 47 - in favor; 0 – against.

7. Nominations and voting for 2 Aero executive division positions (William Oates)
 - 7.1. 1st position is for 1 year (replaces Nancy Johnson's recent vacancy)
 - 7.2. Full 3 year position (replaces Mary Frecker's position)

Nancy Johnson moved to co-chair

Nominations for Mary Frecker and Nancy Johnson

Dianne Brei nominated Andrei Zargai and everybody voted in unanimity for the one year term.

Norm Wereley proposed Alan Browne to become a 1 year member. Preferred to not be elected.

Zubeida Oneidas was also nominated. Zoubeida was elected in unanimity for the three year term

8. Status of Branch's Technical Committees (Mohammed Daqaq)

- 1.1. Active Materials and/or Multifunctional Materials (Chair: Henry Sodano and co-Chair: William Oates, Gary Seidel)

TC on active materials – Ian Anderson – formed a committee for a hardware competition

Nakhiah rolls in next year as co-chair.

- 1.2. Adaptive Systems Dynamics and Controls (Chair: Eugenio Dragoni and co-Chair: Jeong-hoi Koo)

Update of the bylaws. Reduce the period of leadership from two years to one year. Jeong-hoi Koo becomes chair.

- 1.3. Structural Health Monitoring (Chair: Kenneth J Loh and co-Chair: Andrew Swartz)
- No chair or co-chair present. Oliver updated on Swartz becoming chair and Lucy Loo co-chair.

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

No committee member was present. They didn't meet this year. There are plans to add hardware demo.

- 1.5. Bio-inspired Structures and Systems (Chair: Andrew Sarles and co-Chair Pablo Tarazaga)
- Vishnu Sundaresan provided brief updates.

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

16 of 27 members attended

An award on \$500 and plaque for best paper of the TC was proposed. Action to follow.

Start an endowment for the best paper competitions.

Dianne – motion to ask the Division what is the minimum to start an endowment for each paper across the full aerospace division.

9. Update on SPIE Best Student Paper Competition (Constantin Ciocanel and Darren Hartl)
- 56 submissions; 39 judged; 6 finalists

10. Report on SMASIS conference (Ralph Smith, Mike Philen)

- 1.1. Summary of SMASIS 2014
- 2014 had 267 papers, a few less than past year.

- 1.2. Discussion of plans for SMASIS 2015—Colorado Springs, CO

Papers have to be reviewed for ASME ONE

Three week extension requested to ASME on each deadline. The deadlines for SMASIS 2015 are too tight.

Upon submission, the abstracts will be approved immediately.

Lots of activities at SMASIS. HS outreach is something that ASME likes.

2013 SMASIS made \$59k.

Labor charges 15%, 10% indirect labor, 30% overhead

2014 SMASIS \$17k surplus. Final report showed \$15k deficit since fees added back to the budget.

In the future, AMSE looks at ways to increase gross margins; one way is to make the conference more appealing to industry.

For 2015, the Division will back \$13.3k for student activities, AV and food if they cannot raise money otherwise.

1.3. Discussion of options for SMASIS 2016 (William Oates)

Raplh Smith – options

a) Stay with ASME – Stowe, VT

Pros – lock in the same type of expense as for 2015

Cons – having ASME support is important; ASME is tax exempt in certain states.

b) collocate with IDETC/IMECE

Pros – use ASME infrastructure

Cons – loose identity; difficult for government employees to attend due to travel quota

ASME has been raising the registration fees late

ASME asks conferences to co-locate with bigger conferences

Dimitri Lagoudas suggests to stay within ASME. Chris Lynch suggests also staying with ASME for 2016 and beyond.

DO not move away from ASME – this has value for young faculty.

Chris - Work with ASME for 2016 and have options for moving forward. Ralph wants to know if we hang on the VT hotel.

Contingent motion Ken Cunefare – we established that we do SMASIS 2016 in VT and be ready to do SMASIS in 2017 in one way or another, depending on how ASME does move along. Stone or nothing? Motion not moved.

Chris Lynch motion to not sign for SMASIS 2016 in Stove, VT. Motion moved.

Vote for motion: - 35 in favor; 1 against; 10 abstentions.

This motion was not formulated clearly. Rephrased the motion – not to have SMASIS at all in 2016 (with no alternative).

Vote for motion: 20 in favor; 15 against; 7 abstentions.

The rephrased motion passed.

Plans for 2017 should be initiated.

11. Report on SPIE Smart Structures/NDE conference (Chris Lynch and Victor Giurgiutiu)

1.1. 2015 – Symposium Chairs: Victor Giurgiutiu and Chris Lynch; Symposium Co-Chairs: Jayanth Kudva, Theodoros Marikas

No updates yet, but may look like bigger numbers than last year.

1.1. Report on Specific Conferences at SPIE

1.1.1. Active and Passive Smart Structures and Integrated Systems IX (Chair Wei-Hsin Liao, co-chairs: Gyuhae Park and Alper Eturk)

23 sessions – very good outcome.

- 1.1.2. Behavior and Mechanics of Multifunctional Materials and Composites IX (Chair Nakhiah Goulbourne, co-Chair Hani Naguib)
50 papers; Mon-Wed
 - 1.1.3. Industrial and Commercial Applications of Smart Structures Technologies IX (Chair Kevin Farinholt, co-chair Steven Griffin)
37 submissions; 35 accepted; very well attended
 - 1.1.4. Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems (Chair Jerome Lynch, co-Chairs: Kon-Well Wang and Hoon Sohn)
No updates
12. Report on SciTech (AIAA/ASME/AHS) Adaptive Structures Conference (David F. Voracek)
- 1.1. 2015 - 5 – 9 January 2015, Gaylord Palms and Convention Center, Kissimmee, FL
Over 30 papers have been presented.
13. Report on International Conference on Adaptive Structures & Technology (ICAST)
- 1.1. 2014 – Summary of the 25th International Conference on Adaptive Structures and Technologies (ICAST 2014) (October 6-8, 2014) in the Mercure Hotel in The Hague, The Netherlands. - Marcias Martinez M.J.Martinez@tudelft.nl or Roeland De Breuker R.DeBreuker@tudelft.nl
No updates.
 - 1.2. 2015 - TBD
Next one is in Kobe, Japan. May 3rd abstract due date.
14. Honoric Subcommittee
- 10.1 ASME Adaptive Structures and Material Systems Prize (Norman Wereley)
Michael Friswell awarded for 2014 and presented as 2014 SMASIS Keynote

Nominations due in one week. There are a few nominations.
 - 10.2 ASMS Best Paper Awards (Mohammed Daqaq)
 - 10.2.1 Structures and Structural Dynamics (Report by Wei Hsin Liao)
Tummala, Wissa, Frecker and Hubbard
 - 10.2.2 Materials and Material Systems (Report by Nakhiah Goulbourne)
Ahmed, Ouneidas and Frecker

Review papers can be accepted.

Motion to not allow review papers for the best paper competition consideration. Motion moved. Motion passed with only one vote against.
 - 10.3 Ephraim Garcia Best Paper Award (William Oates)
Daynes, Trask and Weaver
 - 10.4 Gary Anderson Award (Mohammed Daqaq)
Alper Erturk
 - 10.5 ASME Fellow Nominations (Marcelo Dapino)
Mohammad Elahinia
Hani Naguib
 - 10.6 SPIE Smart Structures Lifetime Achievement Award (Jay Kudva)
Greg Caraman
15. AIAA Business (Norm Wereley)
SciTech – San Diego next year

16. AIAA/ASME joint newsletter (William Oates)
Get articles is the hard work, The graphics are handled as usual. Further actions required.
17. Branch web site report (Onur Bilgen)
 - 1.1. LinkedIn group and Twitter (Barbar Akle)
No updates. Share the email list of the group for increase LinkedIn activity.
 - 1.2. Facebook page (LeAnn Faidley)
18. New business (Chris Lynch)
19. Nomination of new Branch members
 - SooBum Lee – very active at SPIE and SMASIS in energy harvesting
 - Wael Zaki – organized SMASIS sessions
 - James Gilbert

A motion was made to approve all nominees w/o comments (based on the precedent from Scottsdale meeting). The motion was approved and unanimously the nominees were voted to become members.
20. Adjourn