

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

Meeting at SMASIS 2017
Snowbird, UT
9/18/2017, 7:30-10pm Ballroom 2&3

Members Attending:

Friends Attending:

AGENDA

1. Attendance and acknowledgment of visitors (Oliver Myers)
Oliver Started meeting 7:35
Introductions-Members Friends
2. Review and acceptance of SPIE 2017 meeting minutes (Oliver Myers)
Motion to approve: Henry Sodano; Seconded; Carried unanimously
3. Membership Report (Gary Seidel)
 - 3.1. Circulation of roster for updating: circulated
 - 3.2. Current membership statistics: 93 Members (82 Acad, 10 Indust, 5 Govt), 115 Friends (76 Acad, 19 Indust, 16 Govt).
 - 3.3. TC leadership and membership updates still needed
Please send to Gary Seidel
Diann- Important that branch membership and TC membership are clear and compatible; if not in branch records then doesn't exist in ASME
4. Treasury Report (Darren Hartl)
 - 4.1. Status and update: Deferred to division treasurer (Janet Sater); aero division 180k; end of fiscal year to july 30 so may be more; estimated spend plan was 41k; once the money is gone it is gone; difficult to get more money from ASME; half of the money is spent on meetings; food av etc; awards is only 13k; so need to think carefully about meeting fees

Darren Hartl question: no longer a branch budget; do we need a treasurer; Diann Brei – the one asme is going through changes to send money back in; be patient for a year or two; will still need a treasurer to be sole source to pass information to division
 - 4.2. Acknowledgement of donors for SMASIS 2017 (no report)
5. Update on Aerospace Division by Aerospace Division Executive Committee Chair (Zoubeida Ounaies)

See Attached slides: [Aero Div Report for ASMS minutes.pptx](#)

General committee: headed by Diann Brei, Chris Lynch, Olesya Zhupanska and others.

- 5.1. Acknowledge election of Cornel Ciocanel to serve as branch representative to executive committee.

ASME renewal select aerospace division; correction from Janet; to be a branch member must be a division member.

Leadership summit: TC's and branch leadership were target audience 24 attendees 3 hrs training: Diann Brei sustainability suggested that it should be done every year; Diann doing

for the next two years; need to clean up membership awards and archives

Q: What about members who are current members but not members; but have mass election to move forward; branch roster updating with TC.

6. Status of Branch's Technical Committees (Cornel Ciocanel)

- 6.1. Active Materials and/or Multifunctional Materials (Chair: Jayasimha Atulasimha and co-Chair: Gary Seidel, Darren secretary)
Atul send summary of 2016 and 2017; down overall (Symp 1 26 accepted (down from 32), Symp 2 23 accepted (down from 40), total 49 down from 75; SMAs holding steady all other sessions one session only); should the symposium change or merge Symp 1 and 2; switch leadership at SPIE.
- 6.2. Adaptive Systems Dynamics and Controls (Chair: Rocco Vertechy and co-Chair Manuel Collet; Juliana Abel secretary of TC)
Rocco: 65 abstracts received; 44 full paper sub; 40 approved; 6 pres only
- 6.3. Structural Health Monitoring (Chair: Donghyeon Ryu and co-Chair: Ya Wang secretary ??)
23 papers received (1 poster, 2 invited speaker, 20 presentation), 13 full papers; typically have lower paper numbers for odd years; Ryu: 1 minute presentation; Ya would like to expand so symposium advertised; audience liked; preview of symposium
- 6.4. Active Material Technology and Integrated Systems (Chair: Chai Hutapea and co-Chair: Onur Bilgen)
Onur: 22 full 5 pres; homogenization of TC bylaws; awards protocol
- 6.5. Bio-inspired Structures and Systems (Chair: Pablo Tarazaga and co-Chairs: Eric Freeman, Aimy Wissa, Andy Sarles will become sec)
Eric: 30 abstracts accepted, 17 full papers, would also like to do the 1 minute summary;
- 6.6. Energy Harvesting (Chair: Ryan Harne and co-Chair: Steve Anton, sec Amin Karami)
Ryan: 29 and 27 accepted 19 full papers, 2 invited speakers; 3rd year of energy harvesting best paper award

7. Update on SMASIS Best Student Paper competition

(Lingyu "Lucy" Yu, Mostafa Nouh, Julianna Abel)

Mostafa: 35 submissions +2; 21 judges offsite; 6 finalists; 5 judges; held session today and have winner to announce tomorrow at banquet; need judges so ask TCs for judges 3 each with one who will attend to judge

Julianna: 5 hardware today; have videos; painting event; networking event; game night after the banquet; trivia at lunch on Wednesday.

8. Report on SMASIS 2017 conference (Ken Loh)

See Attached Slides: [2017-09-18 SMASIS 2017 Summary for ASMS Branch Meeting \(Loh\).pptx](#)

8.1. Summary on SMASIS 2017.

Thanks to support of Symposia Chairs, co-Chairs and ASME staff; New symposium: Symposium X; 269 submitted, 238 accepted (155 papers, 65 presentations, 19 invited and 9 posters), 221 registrants; Trending down since 2012 from 298 accepted.

8.2. Updates on SMASIS 2018.

3 cities considered; San Antonio selected; 10 year anniversary

See Attached slides: [2017-09-22 SMASIS info ASMS branch meeting WSO v2.pptx](#)

See Attached flier: [Conference Flyer SMASIS 2018 - 2018-01-10a.pdf](#)

9. Report on SPIE 2017 Smart Structures/NDE conference (Jay Kudva, Greg Reich)

See Attached Slides: [SPIE SSNDE 2017 Strategy Report summary short.pdf](#)

9.1. Report on Specific Conferences at SPIE

9.1.1. Active and Passive Smart Structures and Integrated Systems VII (Chair: Gyuhae Park
co-Chair: Alper Erturk)

Alper updated: ~120 abstracts submitted.

9.1.2. Behavior and Mechanics of Multifunctional Materials and Composites VII (Chair: Nakhiah Goulbourne, co-Chair: Hani Naguib):

Hani updated: 55 abstracts submitted; submission window closing in a few days.

9.1.3. Industrial and Commercial Applications of Smart Structures Technologies VII (Chair: Steven Griffin, co-Chair: Alan L. Browne)

Janet: names are wrong; Industry 4.0; Dan Klingman from Boeing may be chair

9.1.4. Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems (Chair Jerome Lynch, co-Chairs: Kon-Well Wang and Hoon Sohn)

10. Report on AIAA/ASME/AHS Adaptive Structures Conference (Ed White)

See Attached Slides: [AIAA ASC Report at SMASIS Sept 2017.pptx](#)

10.1. 2017 - January 9-13, 2017, Gaylord Texan, Grapevine, TX

10.2. 2018 - January 8-12, 2018, Gaylord Palms, Kissimmee, FL

11. Report on International Conference on Adaptive Structures & Technology (ICAST) (Farhan Gandhi)

See Attached Slides: [ICAST Report at SMASIS Sept 2017.pptx](#)

11.1. Next meeting (2017) the 28th (Poland) October 8-11 and 29th meeting (2018, Seoul, Korea, NamSeo Goo/JaeHung Han)

12. Honorific Subcommittee

12.1. ASME Adaptive Structures and Material Systems Prize (Norman Wereley)

Norm: last year as chair of committee; doing for 5 years; Marcelo Dapino this years winner; Ralph Smith taking over; nominations due oct 1 for next round

12.2. ASMS Best Paper Awards (Cornel Ciocan)

Awards were announced at SPIE and posted/mentioned in the program (see program)

12.2.1. Structures and Structural Dynamics (name wrong; Cornel explained)

Ryan L Harne and Danielle T Lynd, "Origami acoustics: using principles of folding structural acoustics for simple and large focusing of sound energy," Smart Materials and Structures, 25 (2016) 085031

12.2.2. Materials and Material Systems

Bodaghi, M., Damanpack, A. R. and Liao, W. H. "Self-expanding/shrinking structures by 4D Printing" Smart Mater. Struct. 25 (2016) 105034 (Typo, but Cornel explained)

12.3. Ephraim Garcia Best Paper Award (Oliver Myers)

Walker et al, "Process development and characterization of additively manufactured nickel-titanium shape memory parts." Journal of Intelligent Material Systems and Structures 27.19 (2016): 2653-2660

- 12.4. Gary Anderson Award (Oliver Myers)
Awarded to Andy Sarles.
- 12.5. ASME Fellow Nominations (Marcelo Dapino)
Summarized the requirements and strategies; 4 times a year
One case this round from ASME: Gyuhae Park
- 12.6. SPIE Fellow Nominations (Chris Lynch)
Norm: deadline sept 15; do have a couple of nominations that were put in; will announce again at spie; have to be spie member for a number of years; contact Norm or Chris
- 12.7. SPIE Smart Structures Lifetime Achievement Award. (Jay Kudva)
Awarded to Ralph Smith
- 13. Bylaws Updates
Foregoing discussion as a result of interactions at the leadership training
- 14. AIAA Business (Farhan Gandhi)
No other update
- 15. Branch web site report
 - 15.1. Web site report and updates (Onur Bilgen)
 - 15.1.1. Asms-tc.org
 - Send Onur link not video to get asme
 - Henry; asme web has no leadership listed; Oleysa asked them to update but it still has not happened.
 - 15.2. LinkedIn group and Twitter (Barbar Akle)
 - No response from Barbar;
 - 15.3. Facebook page (LeAnn Faidley)
 - No response from LeAnn
 - Henry what is facebook?
 - Gone based on ZO suggesting to make an executive decision
- 16. Ascension of Branch Chair (Oliver Myers)
Leadership change over; Cornel becomes Chair
- 17. Ascension of Branch Co-Chair (Cornel Ciocanel)
Cornel ascends to chair; Darren ascends to Co-Chair
- 18. Ascension of Branch Treasurer (Cornel Ciocanel)
ZO: Nominates Gary Seidel; no other nominations. Second by Diann Brei. Cornell calls the vote.
Vote passes unanimously
- 19. Nomination of new Branch members (Cornel Ciocanel)
 - Call for nominations.
 - Review of nomination slide(s).
 - 19.1. Giovanni Berselli - University of Genova (Nominator Bjoern Kiefer)
 - 19.2. Jared Dale Hobbeck - Kansas State University (Nominator Henry Sodano)

19.3. Theocharis Baxevanis – University of Houston (Nominator Darren Hartl)

Block vote; motion to approve as a block DB; OM 2nds; passes unanimously

Moved to reinstate Janet Sater as a branch member; DB moved; seconds; passes unanimously

20. Adjourn

HS motions; ZO 2nds