

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

**Meeting at
SPIE Annual International Symposium on Smart Structures and Materials
San Diego, California
Tuesday, 10 March 2009
7:00-10:00pm
Town and Country**

MEETING MINUTES

- 0.0 Attendance and acknowledgment of visitors (Don Leo, Chair)
- 1.0 Review and acceptance of minutes of TC meeting at SMASIS 2008 (Zoubeida Ounaies)
Reviewed and accepted.
- 2.0 Membership Report (Zoubeida Ounaies)
 - 2.1 Circulation of roster for updating
 - 2.2 Roster status to-date (government 13; industry 18; academia 45; total 76)

Action items: Update roster following meeting and identify friends of the committee. Send names of 'friends' to Don so that letters can be issued to them inviting them to remain as friends of our TC.

- 3.0 Treasury Report
 - 3.1 Status and update (Sergio Lucato)
Sergio was not able to obtain updates because ASME had not closed out their records by meeting time.

Action item: Update will be sent out with the meeting minutes.

3.2 Fundraising subcommittee (Don Leo)
The charter of this committee is to explore ways to raise funds for our TC. The previous chair was Greg Washington who asked to be rotated out. Don Leo proposes to table the issue for now so that members can familiarize themselves with funding issues associated with organizing SMASIS (item 3.3 or 4.0). Don further suggests that the discussion be put it back on the agenda for the TC meeting to be held at SMASIS 2009.

Action item: Appoint a financial subcommittee to provide recommendations to the TC on how to utilize funds available from the organization of our SMASIS meetings.

3.3 SMASIS 2008 financial summary and TC use of funds (Chris Lynch)
Relevant discussion took place under item 4.0

- 4.0 Update on Aerospace Division by aerospace division executive committee (Chris Lynch)
Brief update on ASME Aerospace division: The Aero division under ASME was headed by Ephraim Garcia. Per recent changes, Bryan Sanders will now chair. The Aero division gets funds for organizing technical sessions at ASME IMECE. Current balance is about \$48k.
Goal of SMASIS 2008 was to break even financially. However, in reality, it ended up making money due to many people (60-70, mostly from industry and government) attending and registering, but not presenting papers. As a result, we ended up with a surplus of \$60k. Of this money, 80% goes to the Aerospace division, for use by our TC. The surplus will be used to underwrite SMASIS 2009 so in the future, 100% of surplus will come back to the Aerospace division. TC helped with success of SMASIS.

Regarding some of the expenses for which our TC is responsible, Chris brought up the idea of endowing awards and moving money from the Aerospace division to make this possible. For example, \$20k with 5% payout is needed to endow an award such as Gary Anderson. A request needs to be made of the Aerospace division executive committee. In the coming year, Alison Flatau will be vice chair of the executive committee and Chris Lynch will be the treasurer.

Action item: At our TC meeting at SMASIS 2009, discuss priorities for spending of funds.

5.0 Reports on SPIE Smart Structures/NDE conference

2009 – Chair: Alison Flatau, Co-Chairs: George Y. Baaklini, Don Leo, Kara Peters.

Meeting is going well. The numbers: there are 686 paid attendees (down about 100 from last year). Number of abstracts submitted is 618 (down 150). During discussion, question came up about increasing quality: why not reject abstracts? Each symposium chair has the authority to reject, accept, and trade abstract. The issue will be brought up at the organizing committee meeting the next day (Wednesday). It was also noted that the presentations slots were not lined up in some of the conferences. Finally, special thanks were expressed to Alison Flatau for her service as chair.

2010 – Chair: Don Leo, Co-Chair: Norm Werely; Chair; Kara Peters; Nerbert Meindorf co-chair

2011 – Chair: Don Leo, Co-Chair: Norm Werely; Chair; Kara Peters; Nerbert Meindorf co-chair

Symposium	Chairs / Co-chairs	Abstracts Submitted	Rejected	Withdrawn	Cancelled	Final Number of Papers
Active and Passive Smart Structures and Integrated Systems	2009 – Chair: Mehdi Ahmadian, Co-Chair: Mehrdad Ghasemi-Nejhad 2010 – Chair: Mehrdad Ghasemi-Nejhad, Co-Chair: Mohammad Elahinia; co-Chair: Henry Sodano ASU Add sessions as a column: 21	101	0	3	5	93
Behavior and Mechanics of Multifunctional Materials and Composites	2009 – Chair: Zoubeida Ounaies, Co-Chair: Jiangyu Li 2010 – Chair: Zoubeida Ounaies, Co-Chair: Jiangyu Li Sessions: 14	82	0	3	2	77
Industrial and Commercial Applications	2009 – Chair: B.K. Henderson, Co-Chair: M.B. McMickell 2010 – Chair: M.B. McMickell; Co-chair: Kevin Farinholt Sessions: 6	32	1	1	3	27
Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems	2009 – Chair: (Tomi) Tomizuka Co-Chair: Victor Giurgiutiu and Chung Bang Yun 2010 – Chair: ?, Co-Chair: ? Sessions:	170				

5.1 SPIE Best Student Paper competition: (Nakhiah Goulbourne, Chris Niezrecki)

The competition went well. It was moved to an afternoon session this year; There were 23 papers submitted, as compared to 33-34 in previous years. Special thanks to judges who volunteered their

time and to the following sponsors: Sage; CSA, Aero division, and Nextgen. Announcement of the winners will take place the next morning on Wednesday at 8am. There is a need for judges so new members should volunteer.

Action item: We will put together subcommittees and will identify slots for new members to participate and volunteer.

6.0 Reports on ASME IMECE and ASME SMASIS

6.1 2009 ASME SMASIS (Chris Lynch): done above.

6.2 Student Events (Chris Niezrecki): Three events took place at SMASIS 2008: student paper competition; student outing and mentoring lunch. The same three events will take at SMASIS 2009 also. Again, there is a need for judges (three to four by sessions). There is also a need for more volunteers to serve on events committee.

6.3 2010 ASME SMASIS (Diann Brei). Next location could be Philadelphia; time frame close to ICAST. The general chair is Diann Brei and the technical chair is Mary Freker. There will be coordination with ICAST at Penn State (Sept 28-Oct 1st).

7.0 Reports on AIAA ASC

2009 Adaptive Structures Conference: Shiv Joshi (general chair) and Greg Reich (technical chair). There is a need for four to five judges to help review student papers.

2010 Adaptive Structures Conference: Greg Reich (general chair) and Norm Wereley (technical chair).

8.0 Reports on International Conference on Adaptive Structures & Technology (ICAST)

2009 – Hong Kong, Wei Hsin Liao (Chinese University of Hong Kong)
Oct 20-22, 2009: TC sponsor of ICAST. Abstracts due May 1st.

2010 – Penn State University, host: George Lesieutre.

9.0 Honorific Subcommittee

9.1 ASME Adaptive Structures and Material Systems Prize (Dimitris Lagoudas)
Dr. Amr Baz is this year's winner. He will be presented with the award and will give talk at AIAA SDM April 2009.

9.2 Nominations for the ASMS Best Paper Awards (Don Leo)

Don thanked Norm Wereley and Pavel Chaplya for chairing the sub-committees (structures and materials, respectively). The awards will be presented the next morning at 8am.

Structures and Structural Dynamics Best Paper Prize (Norman Wereley):
Mary Frecker and George Lesieutre

Materials and Material Systems Prize (Pavel Chaplya)
Zoubeida Ounaies and co-authors

Action item: Marcelo Dapino will take over as sub-chair of awards. He will send out requests for nominations.

9.3 Gary Anderson Award (Don Leo)

This is our TC's early career award (within seven years beyond terminal degree). Mary Freker initiated this award. The TC will present the 3rd one this year, to winner: Henry Sodano (ASU).

9.4 ASME Fellow Nominations (Greg Carman)

Greg Carman is stepping in for Kon-Well Wang. As a reminder: After 10 years as ASME member, one can put themselves forth for ‘fellow’ nomination.

- 10.0 AIAA Business (Diann Brei)
 - 10.1 AIAA/ASME joint newsletter . The newsletter is done; Sergio Lucato designed it. The current issue has a ‘Student spotlight’ section where four students and their research are highlighted. Currently, the team is working on the next issue of the newsletter and again plans to devote a page so that four to five students are again highlighted, so anyone interested can submit 200-250 words per student.
- 11.0 ASME Journal of Mechanical Design- Diann Brei reported that the ASME Journal of Mechanical Design is being split into two journals: ASME Journal of Mechanisms and Robotics and the ASME Journal of Mechanical Design. Splitting off the other journal will enable papers in other areas of design to be included in the ASME Journal of Mechanical Design. The ASME Journal of Mechanical Design is specifically soliciting manuscripts from our community in device, system and product design that involved smart materials and structures. If you have any questions, please direct them to Diann Brei (dibrei@umich.edu) or Mary Frecker (mxf36@psu.edu) who are associate editors for the Journal of Mechanical Design.

Smart Structures database (Marcelo Dapino). Marcelo reported that the database was last updated five years ago. Of the 2000 entries, 300 are bouncing. One suggestion is to put together a table with assignments/tasks requiring volunteers from among our TC members : with one of the tasks relating to updating the database and maintaining it. Another suggestion is to use our website to post information etc. This discussion and final decisions will take place at SMASIS 2009.

- 12.0 TC web site report (Kam Leang). Kam had two news: good news is that the site is updated. Bad news is that site was deleted by ASME during restructuring. Kam has a copy of site and proposes two options: option 1 is to contact ASME and re-create location on their site—disadvantage is that we will not have quick access to update. Option 2 is to include a link under ASME to external site and host external site for our TC. Currently, site is in UNR server. Option 3 is to buy domain name--about \$10/year. A motion was out forth to vote on options at meeting, and majority voted for Option 3.

Action item: Kam will further investigate, implement and bring findings to SMASIS 2009. ASMS-TC.org

- 13.0 Nomination of new TC members:
 - 13.1 Charles Seeley (nominating member: Chris Lynch) Seeley was not in attendance. It was recommended to eliminate his nomination until he shows up since this is the third ‘no show’ for him.
 - 13.2 Kevin Farinholt (nominating member: Don Leo). Kevin was voted in.
- 14.0 Adjourn