

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

Meeting at  
SPIE 2011  
San Diego, CA  
Tuesday March 8th from 7:00-10:00pm in Sunrise Room

**MINUTES**

**Attendees:**

**Members-** George Akhras, Barber Akle, Hiroshi Asanuma, Jayasimha Atulasimha, Vishnu Baba Sundaresan, Diann Brei, Alan Browne, Constantin Ciocanel, Manuel Collet, Marcelo Dapino, Mohammad Elahinia, Alper Erturk, LeAnn Faidley, Kevin Farinholt, Alison Faltau, Victor Giurgiutiu, Nakhiah Goulbourne, Daniel J. Inman, Nancy L. Johnson, Haluk Caraka, Kwang Kim, Don Leo, Sergio L. dos Santos e Lucato, Jonathan Luntz, Chris Lynch, Karla Mossi, Mehrdad N. Ghasemi Nejjhad, Chris Niezrecki, William Oates, Roger Ohayon, Zoubeida Ounaies, Kara Peters, Michael Philen, W. Lance Richards, Eric Ruggiero, Janet Sater, Stefan Seelecke, Henry Sodano, Jonghwan Suhr, Norm Wereley, Andrei Zagrai

**Visitors-** Alexander York, Greg Agnes, Amin Karimi, Nima Mahmoodi, Uwe Marschner, Yirong Lin, Haixiong Tang, Steven R. Anton, Derek Doyle, Whitney Reynold, Philip Evans, Oliver Myers, Hani Naguib, Greg Ehlert, Raman Johal, Dimitris Saravanos, Thomas Wallmersperger, Dumitru Caruntu, Nam-Seo Goo, Jae-Hung Han, Lei Zuo, Joo-Hyung Kim, Youngjae Chun

**Friends-**

0.0 Attendance and acknowledgment of visitors (Marcelo Dapino)

1.0 Introduction of new TC officers

2.0 Review and acceptance of minutes of TC meeting at SMASIS 2010 (Mohammad Elahinia)  
Minutes passed unanimously.

3.0 Membership Report

3.1 Circulation of roster for updating (Mohammad Elahinia)

Current membership:

43 US academia members and 3 friends (46 total)

6 International academia members

14 government members and 4 friends (18 total)

17 industry members and 1 friend (18 total)

Total of 80 members and total of 8 friends

4.0 Treasury Report

4.1 Status and update (Lisa Weiland) given by Zoubeida Ounaies

There was a discussion about the transfer of money between the custodian account and TC account. Sergio gave a quick overview of the status. Chris Lynch will look into transferring money between the TC and the custodial account. The process is overall very slow. Over the years there has been inconsistency between the accounts used for paying the awards. This year for example the donations did not appear in the TC account and directly went to the custodial account. Diann, Zoubeida and Chris will discuss this on the side to try to find a way to correct this issue. **Action item: Lisa will work with Chris to identify the process for transferring money between our account and custodian account at the end of fiscal years.**

- 5.0 Change in bylaws to have TC treasurer communicate with Aerospace division treasurer on a monthly basis. Aerospace division treasurer will keep a set of accounting books and communicate with ASME (Marcelo Dapino)

The new bylaws language was presented by Marcelo Dapino and the floor was opened for discussion. Chris Lynch mentioned that as long as the treasurer is part of the executive committee the presented solution will work. In general the TC treasurer should keep track of the TC money. He recommended an updated language. Executive committee treasurer and Chris have access to the accounts and can send reports to TC treasurer. There was discussion on usefulness of having redundant points of contact with ASME. Chris mentioned that the problem is the inconsistency in responsiveness of ASME staff. Chair and treasurer of executive committee have to sign for any reimbursement, this is the current practice. This should prevent non-authorized reimbursements. Motion to adopt the new language was passed unanimously. The bylaws will be updated as:

“The Aerospace Division Treasurer will be the primary point of contact from the ASMS TC to ASME HQ; secondary point of contact is the ASME staff. To maintain TC accounting activities and books, the ASMS TC Treasurer will communicate with the Aerospace Division Treasurer on a monthly basis. TC treasurer should keep track of income and expenses in a shadow book accounting.”

- 6.0 Update on Aerospace Division by Aerospace Division executive committee (Chris Lynch)

Chris gave a power point presentation (attached) on the proposal for reorganizing the executive committee. 5300 members of the division are seen by ASME as not very active. The ASMS TC is an exception. This level of activity by TC is however not shown on ASME radar because of the current structure. 4000 members identify themselves with aerospace. Additionally, the executive committee members have high level advising and review input for government programs. Chris presented a diagram of the ASME structure. In the proposed restructuring Aero division will have two branches. Each branch will have several TCs. TC members are going to be people who are currently organizing conferences and symposia. This will give better visibility through the division website. The name of our current TC will be in the new division's name. Today's presentation is about the concept. Details will be worked out in the future. The executive committee meetings will be open and all the members are welcome to attend to learn about the division activities and finances. Chris asked for a general approval to start the discussion process to be presented at the next SMASIS. Currently 80% of the activities of the division are done by our TC. In the new structure the TC becomes a branch under the renamed division. Motion was made to start the exploration process by Victor G. second by Dan Inman. The motion passed unanimously.

- 7.0 Update on SPIE Best Student Paper competition (Karla Mossi and Constantin Ciocanel)

Karla gave the report: 23 submissions, 5 finalists, presentations will take place the SPIE. The number of finalists was reduced from 6 because of the limited time available for presentations. Nakhiah mentioned that the number of submissions was also reduced because of SMASIS as another opportunity for competitions for papers. Alison mentioned in the past the entries were from all SPIE conferences, currently almost all the entries are from the conferences our TC organizes. We need to encourage chairs of conferences to spread the word about the competition. **Action item: for the subcommittee to look into broadening the participation including from other SPIE conferences and other technical communities.**

- 8.0 SMASIS conference (Diann Brei)

2010 – Chairs: General Chair: Diann Brei Technical Chair: Stefan Seelecke

2011 – Chairs: General Chair: Diann Brei Technical Chair: Stefan Seelecke (European Technical Chair) and Nancy Johnson (US Technical Chair)

2012/2013 - Chairs: General Chair: Stefan Seelecke Technical Chair: Nancy Johnson

Report was given by Diann on the success of SMASIS number of submissions and number of papers. In Philadelphia there were more attendees than number of submission due to industry participation. Next year the conference is in Arizona the abstract is due March 18. Leann and Andrei will do the paper and hardware competitions. Students will take charge of students' activities. They are in the planning phase for SMASIS 2011. Stephan encouraged the organizers to work on attracting papers.

- 8.1 Reports on conferences

- 9.0 Reports on SPIE Smart Structures/NDE conference 2011 (Don Leo)

This year there was 968 submissions and 930 participants. More information will follow. Papers were from 38 countries, sessions were well attended, bio-inspiration was added this year, SPIE is very happy with the outcome. One effect of this large turnout was the reduced time for presentation for some papers. This will be discussed with SPIE for future conferences. This also caused overlap between talks in different sessions as well as parallel sessions in the same area. **Action item to request form conference chairs to provide more specific information about individual conferences.**

- 10.0 Reports on AIAA ASC
  - 2010 Adaptive Structures Conference: Greg Reich and Norman Wereley 40 papers from 45 submissions in Orlando
  - 2011 Norm Wereley (chair) and Ed White (technical-chair) in Denver April 5-7 the same number of papers, the following year (2012) will be in Hawaii. The goal is to get 60-70 papers
- 11.0 Reports on International Conference on Adaptive Structures & Technology (ICAST)
  - 2010 – Penn State University, George Lesieutre about 100 papers
  - 2011– Corfu, Greece, Dimitris Saravanos (October 10-12, 2011) the web is up, the call for papers will be sent out to the TC mailing list.
- 12.0 Honoric Subcommittee
  - 12.1 ASME Adaptive Structures and Material Systems Prize (Dimitris Lagoudas)  
Daren Hartl in his place: Chris Lynch is the recipient and there will be a session in his honor at SMASIS 2011. Chris will also give a lecture at AIAA ASTM conference.
  - 12.2 Nominations for the ASMS Best Paper Awards (Zoubeida Ounaies)
    - 9.2.1 Structures and Structural Dynamics (Norman Wereley) this year's recipient is A.S. Purekar and D.J. Pines, "Damage Detection in Thin Composite Laminates Using Piezoelectric Phased Sensor Arrays and Guided Lamb Wave Interrogation," Journal of Intelligent Material Systems and Structures, July 2010; vol. 21, 10: pp.995-1010., the winners will be recognized at SMASIS 2011
    - 9.2.2 Materials and Material Systems (Nakhiah Goulbourne) this year's recipient is Haixiong Tang, Yirong Lin, Clark Andrews and Henry A Sodano, "Nanocomposites with increased energy density through high aspect ratio PZT nanowires," Nanotechnology, Vol. 22, No. 1, 015702, 2010, the winners will be recognized at SMASIS 2011
  - 12.3 Gary Anderson Award (Zoubeida Ounaies)
    - 9.3.1 Announcement of this year's winner, this year's recipient is Lisa Weiland, the winners will be recognized at SMASIS 2011. A nomination letter and a CV is what is needed for nomination.
  - 12.4 ASME Fellow Nominations (Greg Carman)
- 13.0 ASME Fellow Committee Membership (Greg Carman transfer to Don Leo) there is one nomination was submitted recently at SMASIS the announcement will be made. Greg was recognized for his efforts.
- 14.0 AIAA Business (Norm Wereley)
- 15.0 AIAA/ASME joint newsletter (Diann Brei)  
The newsletter is ready and will be published soon. Items for next year are due by the end of the year.
- 16.0 ASME/AIAA data base report (Diann Brei and Poorna Mane)  
Diann reported that the database has been cleaned up. **Action item : Sergio will look into creating a listserve so recipients have the possibility of opting out of the list.**
- 17.0 TC web site report (Kam Leang for content and Sergio Lucanto for technical issues)

18.0 Nomination of new TC members:

18.1 Alper Erturk (Dan Inman) after introduction Norm moved to admit him as a new member and was second by Mohammad, motion was passed unanimously.

18.2 Jae-Hung Han (Hiroshi Asanuma) after introduction Dan Inman moved and Nakhiah seconded the motion, this motion was passed unanimously.

19.0 Adjourn