

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

at the

ASME Adaptive Structures and Materials Symposium  
Anaheim, CA

**Wednesday, November 17, 2004  
Reception with NIA 6:00-7:30 pm**

**co-sponsored by the ASMS Tech Committee, NIA, NextGen Aeronautics and CSA  
Committee Meeting 7:30-9:30 pm  
Location: PALOS VERDES A.  
Hilton Anaheim**

**AGENDA**

**1.0 Attendance and acknowledgment of visitors (Alison Flatau, Chair)**

An attendance sheet was circulated with a request that members check the sheet and update any non-current information and that visitors sign in. Visitors interested in joining the TC were asked to send a copy of their CV for consideration at the next TC meeting.

**Note: Lynch updated the attendance sheet with addresses, and visitors (DONE)**

**2.0 Review and acceptance of minutes of committee meeting held at the 2004 SPIE Smart Structures and Materials Symposium, San Diego, CA (Chris Lynch for Mary Frecker)**  
Alison Flatau asked if there were any corrections to the minutes of the TC meeting held at SPIE in March 2004. These minutes were previously circulated via e-mail. There was one comment for correction:

Item 1: last sentence: Identify the XXX award. (Matsuzaki should be put in.)  
Minutes were accepted with this correction.

**3.0 Membership Report (Chris Lynch for Mary Frecker)**

**3.1 Circulation of Roster for Updating**

The roster was circulated. No membership report was given.

**4.0 Treasury Report (Greg Washington)**

**4.1 Status and update**

Greg Washington discussed the treasury report: Ending balance of \$2645.99. ICAST will be donating some funds, approx \$2k. SPIE will also be giving \$2k. Pat Wight is no longer the liaison. New contact is Jonica Todd. Other outstanding approx \$1500 from company donations. \$5500 needs to be collected.

Porter and Jack Jacobs were on a committee to recommend how to spend funds. They had previously expressed interest in an industry award. Norm Wereley pointed out that we currently have a product award and probably do not need another one. Greg Washington suggested that it would be good to have a young faculty award. Greg will be join the committee and organize this is it is of interest. Alison Flatau commented: It would be helpful to have an ad hoc committee to report in March on what to do with funds.

An ad hoc committee was formed that will report in March at the TC meeting.  
Members: Norm Wereley, Greg Washington (chair), Jack Jacobs, Porter Davis

#### 4.2 Proposal for ASMS fund raising – Ad hoc committee report

Norm Wereley noted that ICAST giving \$2k is large relative to SPIE (based on the size of the two organizations). SPIE gives \$2k. Greg Washington noted that he has a copy of a contract signed by Dave Martinez giving \$2k. Should we also push for funds from ASME?

Greg Carman pointed out that no TC gets funds from ASME, so it is not likely that we will.

Dan Inman commented that we should be sure they (SPIE) pay the funds from last year (\$2k)

**Action item: Alison Flatau will talk to SPIE to get the funds. (DONE)**

Alison noted that we have other support: Sage supports the student paper competition. This is independent of this committee. The funds go straight to the best paper committee.

Dimitris Lagoudas pointed out that SPIE is very supportive. They have waived fees for a number of invited speakers. We have been able to use the fee waiver to get really good keynote speakers.

HC: Registration fees for SPIE have doubled since we started. Perhaps we should get twice the funds. (The size of the conference has also gone way up.)

Alison Flatau: Do we get funds from SDM? No.

Norm Wereley: What are the \$1000 donations shown on the report? Greg Washington: These came from companies.

Final note: SPIE gives free registration to chairs. Chairs can pay and let Greg Washington know. SPIE will forward this to our TC.

#### 5.0 Reports on ASME IMECE

2004 ASMS Symposium: Don Leo and Marcelo Dapino

Don Leo: There were 15 sessions, 2.5 days, 59 abstracts, 2 moved to different sessions, 43 out of 58 produced technical publications. This is good for getting more sessions. 2 no shows in the last session. 8 papers withdrawn by ASME because they did not submit papers. Should have changed to Technical presentation. Sessions have had 25 to 40 attendees in each. Pretty good and well attended.

2005 ASMS Symposium: Marcelo Dapino and Mehrdad Ghasemi-Nejhad  
Marcelo Dapino: Abstracts are due March 7 for ASME 2005. This is during SPIE.  
Deadlines are hard deadlines. We can submit abstracts now.

Feedback to ASME is needed: We are scheduled Sun through Wed next year. There is a general consensus of the TC that Sunday is not good. Ajit Roy is our rep on the executive committee. Don Leo will attend on Thursday evening and push for “no Sunday”. Marcelo is pushing for 16 sessions next year. He would also like additional sessions for multifunctional materials, e.g. bio inspired materials. We would then go from 16 to 18. Higher visibility. What does the TC think? Don Leo responded: good idea as long as it does not take away from our sessions. Zoubeida and Don offered to help bring people in. Marcelo: Agreed that we should not cannibalize our conference.

What is the maximum number of abstracts? 16 sessions x 4 per = 64 papers.  
H.C.: We used to collaborate with the materials committee. Do we still? Alison: Do we have a liaison? Zoubeida: I am on the multifunctional materials TC. HC.: Zoubeida is logical representative. Based on this, Zoubeida became our representative on the Materials TC.

2006 ASMS Symp: Mehrad chair, Arnie Lumsdaine co-chair  
2007 Arine Lumsdaine, Kara Peters co chair

## 6.0 NIA Introduction: Don Leo, Walter O’Brien

Don Leo: Bill Kraft and Mohammed Nuri organized two sessions for nine papers. Don invited them to give a brief talk. Dr. Walter O’Brien represents NIA. Thanks given to Bill Kraft for organizing sessions.

Walter gave presentation of NIA. NIA has a lot of relationship to TC already. Dr. Randy Rooker is director of NEMO (National Inst of Aerospace Office). He helped get NIA going. NIA was formed to be independent of NASA Langley. 6 universities: UMd, UVA, Va Tech, Ga Tech, others. 501 C3 not for profit business. Works closely with AIAA. Collaborative partner with NASA LaRC. Outside the gate to do business as a business. Hopefully a 20 year operation or more. Cooperative agreement gives flexibility. Can make contracts on their own as well. Large graduate education component. Motivation: To increase collaboration with academia. Graduate Education. Commercialization of IP. Promotion and outreach. NIA research. NIA grad education (transfer credit already negotiated between participating universities). Fellowships available. Students work in LaRC labs.

**Note: We should not have this kind of promotional material at the TC meetings (per several comments received after the meeting)**

## 7.0 Reports on AIAA SDM

2004 Adaptive Structures Conference: Greg Agnes and Lee Peterson

Greg Agnes: There were 54 papers

2005 Adaptive Structures Conference: Lee Peterson, Steve Griffin  
Austin TX.

Abstracts are down significantly. Difficulty. Morphing program had 3 sessions last year and now very little. This could be the problem.

2006 Steve Griffin and (co-chair is known but not recalled)

Alison asked Greg Agnes to continue to be liaison to AIAA. Greg agreed.

#### 8.0 Reports on SPIE Symposium

2004 – Chair: Vasundara Varadan, Co-Chair: Yoseph Bar-Cohen  
No one present to report.

2005 – Chair: Vasundara Varadan, Co-Chair: Yoseph Bar-Cohen

2006 – Chair: Yoseph Bar-Cohen, Co-Chair: Alison Flatau

#### 8.1 Smart Structures & Integrated Systems Conference

2004 - Chair: Alison Flatau, Co-Chair: Yuji Matsuzaki

72 submissions. 8 posters (only 2 showed)

2005 - Chair: Alison Flatau, Co-Chairs: Yuji Matsuzaki and Don Leo,  
81 submissions. All requesting oral got them.

2006 - Chair: Yuji Matsuzaki, Co-Chair: Don Leo

#### 7.2 Active Materials: Behavior and Mechanics

2004 – Chair: Dimitris Lagoudas, Co-Chair: Bill Armstrong  
Dimitris: Approx 100 papers plus some posters.

2005 – Chair: Bill Armstrong, Co-Chair: Marcelo Dapino

2006 - Chair: Bill Armstrong, Co-Chair: Marcelo Dapino  
2007 – Marcelo, Zoubeida

#### 7.3 Damping and Isolation

2004 – Chair: Kon-Well Wang, Co-Chair: William Clark  
KonWell, 63 papers

2005 – Chair: Kon-Well Wang, Co-Chair: William Clark  
69 papers, 13 oral only, 3 posters

2006 – Chair: William Clark, Co-Chair:two volunteers TBD

#### 7.4 Industrial and Commercial Applications

No one present to give report

2004 – Chair: Eric Anderson, Co-Chair: Ed White

2005 – Chair: Ed White, Co-Chair: Porter Davis

2006 – Chair: Ed White, Co-Chair: Porter Davis

#### 7.5 Sensors and Smart Structures Technologies for Civil, Mechanical and Aerospace Systems

2004 – Shih-Chi Liu, Alison Flatau and Chung Bang Yun  
Alison: Approx 100 papers.

2005 – Masayoshi (Tomi) Tomizuka and Victor Giurgiutiu and Chung  
Bang Yun

Victor: Great growth. About 40% increase.

Alison: They will give best poster award this year. Should we give a  
check with that? This could be considered by our ad hoc committee.

2006 – Masayoshi (Tomi) Tomizuka and Victor Giurgiutiu and Chung Bang Yun

8 Best Student Paper competition: Arnie Lumsdaine  
Sponsorship from CSA, Boeing, Rhombus, Sage Publications.  
48 submissions this year.  
Alison: We discussed separate UG student paper competition. We did not get sufficient submissions so we will not have it this year.  
**Note: Lynch was copied on an e-mail to Arnie – Mohammad Elahinia volunteered to help judge the student paper competition.**

9.0 Reports on International Conference on Adaptive Structures & Technology (ICAST)  
2004 Bar Harbor, Maine – Dan Inman  
Dan Inman: Limited to 100 participants. 3 keynote speakers. Registration about \$500, but meals included. Each poster presenter had 3 slides, 5 minutes. Worked very well. Free beer and wine at poster sessions. Nice donation from DARPA.  
2005 Paris, France – Roger Ohayon  
Roger: Will chair in Paris. Web page, 10-12 October in middle of Paris. Walk to Louvre. Single session, 20 minute talks. Should be very nice.  
2006 Taiwan run by C.K. Lee  
2007 Montreal (likely)

10.0 Honorific Subcommittee

10.1 ASME Adaptive Structures and Material Systems Prize (Dan Inman)  
Missing one vote. Person not yet known. Nominations open to anyone. Decided by previous winners. Perhaps it should be former winners plus several from TC and put together a more formal process. Cash prize, plaque, and special lecture at SDM meeting. 5:00, well attended, \$1000 cash prize. Action Item: Dan Inman, as chair, will identify new honorific ad hoc committee.

**Action item: Send bylaws to Dan Inman. Dan will update.**

10.2 ASMS Best Paper Awards (Chris Lynch)  
Structures and Structural Dynamics (Don Leo)  
Materials and Material Systems (Marty Dunn)

**Action item: Chris Lynch will collect and forward papers to Don and Marty for evaluation (DONE)**

10.3 Recognition Campaign (Kon-Well Wang)  
Roger Ohayon recognized as Fellow ASME  
Chris Lynch recognized as Fellow ASME  
Virginia DiGiorgi recognized as Fellow ASME

11.0 Operating Procedures

11.1 Revised Bylaws (H.S. Tzou and Jeff Martin)  
Dan Inman will revise adaptive prize section.  
H.S. Those on committee should read bylaws. They are on the ASME TC website.

Action item: Get site address in minutes  
([www.asme.org/divisions/aerospace/committees/asms.html](http://www.asme.org/divisions/aerospace/committees/asms.html))

11.2 TC Database (Diann Brei, Mehrdad Ghasemi-Nejhad, Don Leo, Marcello Dapino, and Greg Agnes)

Policy is to contact Don Leo. He sends requests to the database oversight Committee. Committee decides if it is OK. Focus is on announcing symposia and conferences associated with this TC.

12.0 AIAA Business (F. Staub)

Greg Agnes volunteers to take information to AIAA as needed.

13.0 Nominations for new Officers and TC members

13.1 TC officers voted in – Vice chair (Mary Frecker), Secretary (Don Leo) and Treasurer (Zoubeida)

13.2 New Member: Jordan Massad, Sandia Nat'l Lab: Voted in

13.3 New Member: Hiroshi Asanuma, Chiba University in Japan: Voted in

Alison Flatau discussed the number of committee members needed to run things

1 chair

1 co-chair

1 treasurer

1 secretary

1 ICAST

2 ASME

8 SPIE (2 ea for 4 conferences) plus 1 student paper plus 1 on sensors

2 honorific

2 to 5 TC data base

2 Bylaws

4 fund raising

others

It takes approximately 30 to run things. A TC with 40 or more active members is definitely not too large.

Action item: Alison Flatau offered to update this since I was not typing fast enough.

14.0 Adjourn

Moved to adjourn and seconded.