

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

at the
SPIE Smart Structures and Materials Symposium
San Diego, CA

**Tuesday, March 16, 2004
7:30-9:30 PM
Town & Country Resort and Convention Center
Location TBA**

Minutes

- 1.0 The meeting began with attendance and acknowledgment of visitors (Alison Flatau, Chair) A. Flatau made introductory remarks. Amendment to agenda: insert Honeywell as item 9.4. Yuji Matsuzaki was thanked for his contributions, and took time to express his thanks to the committee for recognition at the ICAST meeting with the xxxx award.
- 2.0 Minutes of committee meeting held at the 2003 ASME IMECE ASMS Symposium, Washington, DC (Chris Lynch for Mary Frecker) were reviewed and accepted.
- 3.0 Membership Report (Chris Lynch for Mary Frecker)
 - 3.1 A roster was circulated for updating.
- 4.0 Treasury Report (Greg Washington)
 - 4.1 Status and update: Current balance \$4401.12 Outstanding check for \$500 just cleared.
 - 4.2 Proposal for ASMS fund raising: More company support has been received. Lockheed, Nextgen, CSA made donations. Another fund raiser may not be needed right now. What are funds used for? Awards, receptions, etc. What are our present awards? See item 9. Company donated funds are used for the ASME reception. SPIE pays for awards \$1500. G. Carman: perhaps a more global award would be good, perhaps another best paper award. D. Brei: perhaps a young rising star award? Within 5 years of graduation? P. Chaplya: perhaps a best paper for undergrads? P. Davis introduces Jack Jacobs. Jack manages advanced technology for Honeywell. They may sponsor an award. A. Flatau suggested an ad hoc finance committee will look at awards and bring ideas to next meeting. Porter Davis suggested something along industrial lines. Perhaps a product award. Janet Sater said she did not get a single application from Industry list. Porter volunteered to talk to ad hoc committee together with Jack Jacobs. G. Carman summarized: we are stable for the next two years.
- 5.0 Reports on ASME IMECE
 - 2004 ASMS Symposium: Don Leo and Marcelo DapinoDon Leo – we have 70 abstracts. National Inst of Aero asked for two sessions. Granted. 8 papers submitted. 14 sessions with at least 1 NIA. If interested in submitting late abstract, talk to Don. Still possible. NIA will put \$500 to \$1000 into a reception at ASME on a night following TC

meeting. We asked for tues, wed, thu. Bulk of sessions on tue and wed, some on thu. D. Leo and M. Dapino will decide. There are potential attendance issues for a reception (we have had low attendance in the past. D. Leo mentioned that ASME will be very strict with respect to web site paper submissions. Need abstracts into conference by January next year.

2005 ASMS Symposium Chairs: Marcelo Dapino and Mehrdad Ghasemi-Nejhad

6.0 Reports on AIAA SDM

2004 Adaptive Structures Conference: Greg Agnes and Lee Peterson

Greg Agnes' e-mail report should be attached to minutes.

2005 Adaptive Structures Conference: ?

7.0 Reports on SPIE Symposium

2004 – Chair: Vasundara Varadan, Co-Chair: Yoseph Bar-Cohen

A. Flatau raised the issue of many last minute cancellations and no-shows. This may be tied to visa issues.

There were also concerns expressed about posters not being appreciated. To address this, the conference chairs will identify best posters and announce best poster at the Wed. plenary session.

B. Armstrong: expressed concern about moving too fast. J. Sater addressed this concern stating that Vasu Varadan had organized the selection of one from each conference and they will be announced in the morning. A. Flatau – this should help instill value to the posters. J. Sater – there is going to be a steering committee that J. Sater will sit on. The steering committee function will be to develop a long range vision for SPIE.

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

2006 – Chair: Yoseph Bar-Cohen, Co-Chair: ?

7.1 Smart Structures & Integrated Systems Conference

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

76 papers and posters. 6 requested poster. All were accommodated. 6 withdrawals prior to printing. 5 late cancellations. Poster presenters stepped in and presented.

2005 - Chair: Alison Flatau, Co-Chair: Don Leo, Yuji Matsuzaki

2006 - Chair: Don Leo, Co-Chair: ?

7.2 Active Materials: Behavior and Mechanics

2004 – Chair: Dimitris Lagoudas, Co-Chair: Bill Armstrong

Lagoudas - Well attended. Keynote speakers in each area. 20 posters in program. 9 showed up.

Armstrong – we picked a poster.

Lagoudas – one session had 3 cancellations. Poster presenters stepped in. EAPs were focused on mechanics, so overlap with EAP conference was not a problem. Tomorrow the organizing committee will have a meeting.

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

2006 - Chair: Bill Armstrong, Co-Chair: Marcelo Dapino

7.3 Damping and Isolation

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

63 papers. 5 cancellations. No surprises or last minute no-shows.

2005 – Chair: Kon-Well Wang, Co-Chair: William Clark

2006 – Chair: William Clark, Co-Chair:?

7.4 Industrial and Commercial Applications

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

52 papers. Lots of arm twisting needed to get industry folks to write papers. Few university folks in this one. Would like to move the conference back to Monday. Some content will be removed from Thursday. In getting small companies to present we do not want advertising pieces. There needs to be technical content.

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

Over 100 submissions. This is the joint SPIE NDE one. Alison Flatau stepped in at last minute. Victor Giurgiutiu will step in for next year

2005 – Masayoshi (Tomi) Tomizuka and Victor Giurgiutiu

7.6 Best Student Paper competition: Arnie Lumsdaine

30 submissions. Very high quality. (last year was about 45). All should encourage students to submit papers next year. Students will keep the prize money. Lumsdaine listed committee who helped with reviews. Idea of separate undergrad and grad student competition discussed. Would be great, but this may be tough to do unless we get another entire set of reviewers. P. Chaplya - Maybe not enough undergrads. TBD. He will follow up. D. Brie – how many undergrads have we had in the past? A. Flatau – there are some. They write good abstracts. Top 6 are picked based on abstracts. G. Washington– if we state that we will do something special for undergrads we will get more participation by them. Thinks this is a good idea. D. Brie – lets start a pilot program and see how it goes. A. Flatau – maybe tie in with P. Davis and J. Jacobs – industry relevance. Motion for pilot program approved. A. Lumsdaine and P. Chaplya will organize it.

Carman – Has this conference grown? Response: Yes, by about 70 papers. No breakdown.

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

2004 Bar Harbor, Maine – Dan Inman

Inman – call went out. Due May 1st (after the SDM). Brei – Cansmart is week before. They will arrange a bus trip from Montreal to Bar Harbor. Virginia DiGeorgi - Cansmart is a very nice small conference. Includes lots of food. Brei – will we plan ICAST so that they do not compete when overseas? Response: CANSMART is primarily Canadian. It does not really compete with ICAST.

2005 ?

Inman – ICAST will be in Paris next. 10-12 October (M,T,W). ICAST excess funds will go to this TC.

McGowan – there is a Bristol conference in August 31 – Sept 2. Euromac is first week Sept. We should avoid overlap.

9.0 Honoric Subcommittee

9.1 ASME Adaptive Structures and Material Systems Prize (Dan Inman)

Won by Greg Carman. G. Carman will give a presentation about past, present, and future. Will try to do an historical review on Tuesday night. The award nomination procedure is: e-mail a nominations to Dan Inman. D. Inman will e-mail a list of past reviewers to Elio Mannes for posting on web site. Past winners vote. They rank nominees 1 -5. Votes are weighted.

9.2 ASMS Best Paper Awards (Chris Lynch)

Please send nominations to Lynch

Structures and Structural Dynamics (Don Leo) Norm

Materials and Material Systems (Marty Dunn)

9.3 Recognition Campaign (Kon-Well Wang)

Newest fellow recruited to help – Greg Carman. Two nominees in queue. Hopefully good news at the WAM. Please send nominations to Konwell Wang. There is a quota for number of fellows to number of ASME members. This likely will not kick in.

10.0 Operating Procedures

10.1 Revised Bylaws (H.S. Tzou and Jeff Martin)

Motion to accept? Moved and seconded. Content: We need to add details of the student paper competition. A few minor notational items will be handled by e-mail. Adopted.

10.2 TC Database (Diann Brei and Mehrdad Ghasemi-Nejhad)

Brei – Need a vote on an issue: Compiled a central data base. AIAA and ASME had outdated data base. We had 3000 entries. Ended up with 1300 good e-mails. Topic of selling data base came up. Committee had e-mail discussion. 3 options: 1. sell it straight out. 2. sell access through a data base manager. 3. give free access. Consensus: it should not be given out free (recommended). Pros – fee would bring in funds for TCs (ASME and AIAA) about \$650 per. Cons – effectiveness and potential for abuse. We may not get out important information. Spam filters may be put on. Reputation of TC may suffer if perceived as a spam source. Recommended policy – do not sell it, but encourage donations.

Virginia – does ASME have a policy? If list is sold we may need to have an “option out of list” on each e-mail.

Recommendation moved and seconded. Voted to not sell it but encourage donations.

D. Brei requested an amendment to bylaws to reflect this vote outcome.

11.0 AIAA Business (F. Staub)

F. Straub – chair of AIAA. 3 things: 1. started process of having AIAA as co-sponsor of SPIE. This will be in place for next year. Good thing. Only problem is proximity to SDM conference. Hopefully we can push this back. A. Flatau – next year SPIE will be 3/6-10. 2. Data base. 3. N. Wereley is putting together an AIAA book. Wereley, in a proposal to AIAA, has asked for contributors to the book. Please contact Norm if you wish to contribute a chapter, call him immediately. Must have proposal in next week.

12.0 Nominations for new TC members

Some discussion of TC size:

Janet Sater – Feels bylaws should have a rotation off policy, especially for people not actively contributing. Feels size is too large.

Mark Regelbrugger – Feels 30 to 32 is a common size for TCs.

Alison will bring to IMECE a list of the number of committee members needed to run the committee.

Votes on new members:

- 12.1 Norm Wereley, Univ. Maryland Yes
- 12.2 Zoubeida Ounaies, Virginia Commonwealth Univ. Yes
- 12.3 Gyuhae Park, Los Alamos National Labs Yes
- 12.4 Jiangyu Li, Univ. Nebraska-Lincoln Yes
- 12.5 Alan Browne, GM Research Yes
- 12.6 Geoffrey McKnight, HRL Laboratories Yes

13.0 Adjourn