

**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, February 28, 2006
7:30-9:30 PM
Town & Country Resort and Convention Center
Garden Salon I**

ATTENDANCE

Committee Members:

Bill Armstrong
Diann Brei
Alan Browne
Greg Carman
Pavel Chaplya
Marcelo Dapino
Alison Flatau
Mary Frecker
Victor Giurgiutiu
Nakhiah Goulbourne
Kyle Henderson
Daniel Inman
Conor Johnson
Nancy Johnson
James Joo
Dimitris Lagoudas
Jiangyu Li
Sergio Lucato

Anna McGowan
Mehrdad Ghasemi Nejhad
Roger Ohayon
Zoubeida Ounaies
Kara Peters
Norm Wereley

Visitors

Lizhi Sun
Darryll Pines
Rosalind Wynne
Hillary Bart-Smith
Karla Mossi
Ernie Haves
Jonathan Luntz
Paul Alexander
Andrei Zagrai
Yuji Matsuzaki
Ratan Jha

AGENDA

- 1.0 Attendance and acknowledgment of visitors (Chris Lynch, Chair)

Meeting was convened at 7:52. Members and visitors introduced themselves.

- 2.0 Review and acceptance of minutes of committee meeting held at the 2005 ASME Meeting, Orlando, FL. (Don Leo)

A motion to accept the minutes were accepted.

- 3.0 Membership Report (Don Leo)
3.1 Circulation of Roster for Updating
3.2 Review of Subcommittee Membership

Dan Inman suggested that Dmitris Lagoudas would be a suitable candidate to chair the Adaptive Structures Prize committee. Dmitris Lagoudas accepted.

Action: Dmitris Lagoudas will become the Adaptive Structures Prize Chair.

4.0 Treasury Report (Zoubeida Ounaies)

4.1 Status and update

Zoubeida Ounaies gave a report on the finances. SPIE was being less responsive on their commitment, but Chris Lynch will discuss later.

Action: Zoubeida will send the treasury report to Don Leo electronically.

5.0 Reports on ASME IMECE

2006 ASMS Symposium: Mehrdad Ghasemi-Nejhad and Arnold Lumsdaine

In 2005 we had 15 sessions (13 regular + 2 on multifunctional materials). In 2006 we have 16 sessions. The conference will be held Tuesday afternoon through Thursday morning. Mehrdad reminded everyone that the deadline for abstract submission is March 6. Mehrdad passed around a call for papers for the meeting.

2007 ASMS Symposium: Arnold Lumsdaine and Kara Peters

6.0 Reports on AIAA SDM

2005 Adaptive Structures Conference: Lee Peterson and Steven Griffin

Darryll Pines gave a report on the SDM conference. There were 8 sessions with a primary focus on adaptive optics. Darryll mentioned that they are trying to put the keynote presentations on their website. This year's presentation will also be on adaptive optics.

2006 Adaptive Structures Conference: Steven Griffin and D. Ambur

7.0 Reports on SPIE Symposium

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

Alison Flatau provided a report on the meeting. There were 702 registered one week before the conference; 715 preregistered. Paper presentations had 677 papers submitted, 570 accepted for and 101 posters accepted. There were 43 withdrawn technical presentations.

Action: Alison will email the statistics to Don Leo.

2007 – Chair: Yoseph Bar-Cohen, Co-Chair: Alison Flatau

7.1 Smart Structures & Integrated Systems Conference

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

Yuji Matsuzaki gave the report. He indicated that there were 66 papers accepted to the conference.

2007 - Chair: Yuji Matsuzaki, Co-Chair: Don Leo

2008 – Chair: Don Leo, Co-Chair: Mehrdad Ghasemi-Nejhad

7.2 Active Materials: Behavior and Mechanics

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

Bill Armstrong gave the report. He indicated there were 76 presentations and 6 posters.

2007 – Chair: Marcelo Dapino, Co-Chair: Zoubeida Ounaies

7.3 Damping and Isolation

2006 – Chair: William Clark, Co-Chair: Mehdi Ahmadian / Arnold Lumsdaine

Arnold Lumsdaine gave an informal report. There were 45 presentations and 3 posters accepted to the meeting.

2007 – Chair: William Clark, Co-Chair: Mehdi Ahmadian / Arnold Lumsdaine

2008 - Chair: Mehdi Ahmadian, Co-Chair: Arnold Lumsdaine

7.4 Industrial and Commercial Applications

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

There were 5 sessions with 24 papers. Some sessions were quite sparse, some were extremely well attended.

2007 – Chair: Porter Davis, Co-Chair: ?

2008 – Chair: Porter Davis, Co-Chair: ?

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

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

Victor Giurgiutiu gave the report. There were 155 technical presentations.

2007– Masayoshi (Tomi) Tomizuka and Victor Giurgiutiu and Chung Bang Yun

7.6 Best Student Paper competition: Arnold Lumsdaine/Zoubeida Ounaies

Arnold Lumsdaine gave the report. There were 21 papers; quality was as good as it has ever been. In the previous year we had 49 submissions. Submissions outside the committee were down to 7 this year. Sponsors this year were Boeing. This is the last year of a five-year commitment. Sage Publications has become an additional sponsor. Arnold suggested that we seek additional sponsors. Chris Niezrecki has volunteered to head the committee, but he is not a member. Nakhiah Goulbourne volunteered to chair the committee. Alison Flatau mentioned that the chair should be someone that has judged previously.

Action: Zoubeida Ounaies will send contact information to Nakhiah Goulbourne.

It was suggested that the reviewed papers be considered for publication in JIMSS. Virginia DeGiorgi reminded that SPIE owns the copyright.

Pavel Chaplya suggested that SPIE put a footnote on the paper indicating that it was a finalist in the paper competition.

8.0 Reports on International Conference on Adaptive Structures & Technology (ICAST) 2006 Taiwan, C.K. Lee

Yuji Matsuzaki spoke for C.K. Lee. Yuji M. had visited the location of the meeting. There is a website for the meeting, www.icast2006.org. The meeting will be Oct. 18-20, 2006.

9.0 Discussion of change of venue issue and TC funding arrangement with SPIE (Chris Lynch)

Chris Lynch gave an overview of the importance of the TC to the Smart Materials and Structures Committee. SPIE has reconsidered the \$2000/year funding that is given to the committee. The TC had asked for additional funds. Chris Lynch contacted the Catamaran to get details on conference facilities and costs. An estimate of the costs of this meeting were provided (see attached). A meeting with SPIE was held this afternoon. SPIE has said that the conference has lost 20K-80K over the past four years. SPIE has indicated that the conference needs to be profitable within 3 years or it may be cancelled. SPIE has indicated that NDE be reduced to 10 conferences; our TC conferences should be combined; changes in the structure of the meeting so that the differences between the symposia are improved. SPIE indicated that attendees are disappointed that there is overlap in technical topics between the different symposia. Janet Sater has indicated SPIE has always said that they had lost money. She asked where these suggestions were coming from. Chris Lynch indicated that SPIE views that these conferences are 'theirs'. Ownership of the conference is at question. SPIE was questioning why our TC believed these were 'our' conferences. Alison Flatau indicated that she thought SPIE viewed that this conference should be a collection of committees. SPIE has new people and they are looking at the bottom line. Increasing interest to non-authors would be favorable. They said that increasing the rejection rate would have detriment in the short term but would increase the quality in the long run. Chris Lynch said that SPIE expressed concern that growth in the conference was only 1% per year

recently. Mary Frecker said that SPIE was concerned about reorganizing the program so that non-authors would be more interested in attended. There was some discussion about increasing the number of panel discussions and the number of posters. Janet Sater indicated that some of these ideas have been discussed for a long time.

Costs:

15% increase per year for AV costs at the hotel are going to increase due to movement in another conference

Chris Lynch will follow up with SPIE.

The discussion of the technical aspects needs to be addressed separately than the finances. The focus of the discussion with SPIE centered on the technical discussions.

It was suggested that our 5 (or all 13) conferences should be examined to minimize overlap.

One opportunity would be incorporate this conference into ASME as an ASME conference. ASME can be considered as a backup position.

The venue was viewed as a negative to improving the conference.

SPIE has indicated that they felt there are 'too many' awards. SPIE supports the student paper awards and the lifetime achievement awards.

It was suggested that we have two parallel committees. The first committee would investigate the overall organization of the conference. The second committee would investigate solutions if SPIE backed out. Chris Lynch volunteered to take the lead on putting together an alternative proposal with additional detail on the possibility of holding a separate conference.

Action: Form one ad hoc committee to examine the financial aspects of the meeting.

Greg Washington
Diann Brei
Arnold Lumsdaine
Don Leo
Pavel Chaplya
Janet Sater
Alison Flatau
Chris Lynch

A second ad hoc committee will be formed to examine the technical content.

Alison Flatua + conference chairs
Anna McGowan
Mary Frecker

Both committees will present a report at the 2006 ASME meeting.

10.0 Honoric Subcommittee

- 9.1 ASME Adaptive Structures and Material Systems Prize (Dan Inman)
Adoption of the operating procedure for the ASMS Prize (Chris Lynch)

Action: table the item until ASME meeting

- 9.2 Nominations for the ASMS Best Paper Awards (Mary Frecker)
Structures and Structural Dynamics (Norman Wereley)
Materials and Material Systems (Pavel Chaplya)

Mary Frecker announced the winners of the Best Paper Awards.

Action: Mary Frecker will email Don Leo the names of the winners.

- 9.3 Adoption of the operating procedure for the Gary Anderson Prize (Mary Frecker)

Mary Frecker went over the procedures for the Gary Anderson Early Achievement Award (see attached). Chris Lynch asked whether or not we have the funds. Zoubeida Ounaies said that we do have the funds for the awards.

Action: Mary Frecker will contact Gary Anderson and invite him to the 2007 SPIE meeting.

Action: Darryll Pines will investigate whether the AIAA committee can co-sponsor the award.

The question was raised by Janet Sater about giving the award at the SDM meeting.

Action: Include an agenda item on the November meeting to report on the co-sponsoring of the Gary Anderson Award.

A move was accepted to accept the recommendations put forward by Mary Frecker.

- 9.4 ASME Fellow Nomination (Kon-Well Wang)

Kon-Well reported that two people were being considered for ASME Fellow.

11.0 AIAA Business (D. Brei)

Diann Brei gave a brief report on the AIAA business. She gave a report on the newsletter that is being discussed for the committee. It was suggested that we use the newsletter to advertise the best student paper awards.

11.0b Additional Business: Becoming an ASME Division

Chris Lynch put forth a recommendation on the possibility of becoming a Division (see attached). The main impetus of becoming a Division is the technical diversity of the

committee. Also, our TC currently performs a number of activities that occur within an ASME Division. There were no financial penalties that were readily apparent.

A move was put forth to tentatively accept the recommendations of becoming a Division pending a discussion of the financial aspects.

Action: Chris Lynch will contact Elio Manes at ASME to determine financial information.

12.0 Nominations for new TC members

12.1	Keith Williams, Univ. of Alabama	PASSED
12.2	Karla Mossi, VCU	PASSED
12.3	XY Gong, Nitinol Devices and Components	PASSED
12.4	Lizhi Sun, Univ. of California, Irvine	PASSED
12.5	Dan Clingman, Boeing	PASSED
12.6	Gangbing Song, Univ. of Houston	PASSED

13.0 Adjourn

Meeting was adjourned at 9:50.