

AIAA Adaptive Structures Technical Committee
Meeting Minutes
April 9, 2003
Norfolk, Virginia

1. INTRODUCTION

Friedrich Straub called the meeting to order at 6:50. There were 25 attendees. The sign up sheet is attached.

The minutes from the previous ASTC meeting were approved by unanimous oral vote.

New members Carlos Cesnik and Nikhil Koratkar were introduced. It was announced that Ben Wada was retiring.

2. REPORTS FROM STANDING AND SPECIAL SUBCOMMITTEES

2.1 Reports from SDM Strategic Direction and Long Range Planning Committees

The Strategic Direction committee is discussing the future of the Jefferson goblet. Approximately 22-24 papers are eligible each year and two to three are awarded. A student must be the primary author, but other's may co-author the paper. To qualify the Student Paper Chair must have a copy. There was no money this year and AIAA covered the cost, approximately \$500 per goblet or a total of \$1000 to \$1500 per year. Establishing an endowment of approximately \$20 K or adding \$2 to the SDM registration fee was discussed. The ASTC decided to continue support and Stephen Brock volunteered to lead the effort in raising money.

The SDM strategic directions committee is reviewing whether to limit general chair of the conferences to the TC's. In the past, the conference chair was rotated between the SDM technical committees: Structural Dynamics, Structural Materials, MDO and ASCE. There is concern with corporate memory and involvement of the other concurrent conferences. The qualifications of the past chairs have been involvement in the SDM community and experience in offering SDM conferences. They require approval of the Long Range Planning Committee and AIAA director for Structures, Design and Tests. For Adaptive Structures to be in the rotation for the general chair, the Adaptive Structures Conference would need to be under the umbrella of the SDM conference. The ASTC decided we wanted to continue for now as our own conference to maintain our identity, but should revisit the issue in the future.

2.2 Chair's Report (Straub)

The TC met three times in the last year. The main meeting is at the SDM/ASC. Joint meetings with the ASME Adaptive Structures TC were held at the ASME IMECE (November) and the SPIE Smart Structures Symposium (March). The TC has a total of 45 members, including 12 from industry, 15 from academia, 8 from government, and 10 associate and international members.

2.3 Publications (Brei)

Contact Info Database(Brei): Diann Brei has established a national database for the smart materials and structures community. This database includes the original AIAA database, ASME database, databases from centers, sponsors, etc. The original database was increased from 300 entries to over 1000 entries. A committee was formed at SPIE to assist in forming and cleaning the database. The goal is to finish the database this summer and transition it to CIMMS at Virginia Tech for long term oversight. The committee developed governing guidelines for the database which were ratified by the ASTC.

Highlights Article (Bawden): The AIAA Highlight article is 500 words plus a photo. This year they were able to include the sponsor's names. They requested input, a sentence or two, needed end of August.

Web Site (Regelbrugge): Web page has been updated. Marc Regelbrugge requested assistance on managing the database. Dan Inman noted that CIMMS has personnel to assist in web pages and Frank Abdi offered assistance.

Aerospace America Article (Sater): Janet Sater is working on the article, but it is challenging due to single space and figures. She is continuing to look for help.

AIAA Book (Wereley): Norm Wereley is organizing an AIAA book with approximately 30-35 chapters, 200 pages. He is looking for seminal and state of art papers, not historical. Invitation letters are expected to be sent in May with chapters due in September. An initial review will be in December with revisions due in March 2004 and final drafts in April 2004. Target publication date is January 2005. He is looking for chapter titles: wereley@engin.umd.edu.

2.4 Conferences (Babuska)

ASC 2003 (Agnes): This year's conference had 58 papers in 9 sessions over two days. Seven papers were rejected resulting in 90% acceptance. There were 4 to 5 no show. Attendance was very good. There were a few AV problems but there was overall agreement that the computer

presentations were worth it. There was a discussion about online proceedings versus CD. Next year Lee Peterson will be technical chair.

ICAST (Wereley): ICAST was in Germany, Oct 7-9 2002. This year it will be in Seoul Korea. May 1, 2003 is the deadline for papers. Next year Dan Inman will be hosting it in Bar Harbour, Maine. In 2005 it will be in England.

SPIE 2003 (Regelbrugge/Janet Sater): This years SPIE went very well. The paper and attendance was up and the venue was good. Next year it will be later March 15. Concerns were expressed again with the proximity of the SPIE and ASC. Next year Vasu Varadan will be chair and Bar Cohen Vice Chair.

2.5 Awards and Advancement (Chopra)

ASME ASMS Prize (Inman): This year award winner was Yuji Matzuski. Please send nomination to Dan Inman.

ASME ASMS Best Paper: no information available

AIAA Grade Advancements: Usik Lee received associate level, Yuji Matsuzaki and Dan Inman AIAA fellow. Members are encouraged to apply to upgrade their status. You need 8 years for senior grade, 12 years for associate fellow. Deadline is April 15.

2.6 Liaison (K. Griffin)

Congressional Visits Day (Bawden): There was a conflict this year with the AIAA conference. More discussion is in new business.

Other Technical Committees: There was discussion about parallelism between sessions in SDM and ASC. The Dynamics TC is developing best practices, professional guidelines and the Structures TC is developing standards. When developed we should consider standards for our TC

2.7 Education (White)

This year there were 22 student papers. There were no short courses.

3. OLD BUSINESS

There was no other old business.

4. NEW BUSINESS

4.1 Elections and Appointments

Since it was an even year there were no elections.

4.2 ASC 2004 (Agnes and Peterson)

Greg Agnes will be the Chair and Lee Petersen the technical chair. They requested suggestions on a keynote address. Next year the ASC will be in Palm Springs, April 19-22, 2004. Our sessions are Tuesday afternoon, Wednesday and three sessions on Thursday morning. Each session should have a minimum of 6 papers and optimal of 7 to be full. If you have recommendations for special sessions please inform Greg by July 14. Janet Sater recommended a panel on morphing capabilities, Nikil recommended design of actuator/sensors, perhaps nano. Aug 1, 2003 is the deadline for abstracts and Sept 12 for the full program. They are going to try to review papers in two weeks. They asked for standby reviewers and Kyle Henderson volunteered. They asked for standby session chairs and Michael Vanik and D. Brei volunteered. It is expected that there will be limited hotel rooms and most of the surrounding hotels are expensive.

4.3 Aerospace America Highlights Article

Mike Bawden will be writing the article and requested input.

4.4 Congressional Visit Day

Darryll Pines recommended dropping the congressional visit day. There is limited accessibility and it commonly conflicts with other things, such as this year's AIAA. An e-mail be forwarded to the TC members in case someone wishes to attend on their own.

4.5 Reports from SDM Strategic Direction and Long Range Planning Committees

See Above

4.6 Items from the floor

Vit Babuska discussed a special journal from the conference papers and others. Darryll, Vit and Greg would select the best papers and follow up with the journal editor.

4.7 Next AIAA ASTC Meeting

November at the ASME conference in Washington DC.
March 2004 at the SPIE in San Diego
April 2004 at ASC in Palm Springs, CA.
Specific dates and times to be announced later.

The meeting was adjourned at 8:45.