

**MINUTES OF THE
AIAA STRUCTURAL DYNAMICS TECHNICAL COMMITTEE MEETING
Seattle, WA
17 April 2001**

INTRODUCTION.

The Spring 2001 meeting of the Structural Dynamics Technical Committee (SDTC) was held on 17 April 2001 in conjunction with the 42nd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference.

1. CALL TO ORDER.

Mr. Ralph Tate called the meeting to order. He introduced new members and visitors and recognized the contributions of departing members.

MINUTES OF LAST MEETING.

Dr. El-Aini moved to accept the minutes of the SDTC meeting on 19 October 2000 with minor corrections in typing. Mr. George Wacker seconded. The committee voted to accept to the minutes by acclamation.

2. SUBCOMMITTEE REPORTS.

AWARDS.

Dr. Peretz Friedmann reminded members to submit applications for membership upgrades. Download forms from the AIAA web page and send the completed form to Peretz.

Prof. Ed Crawley of MIT was selected as the Recipient of the Structures and Structural Dynamics Award.

EDUCATION.

The subcommittee will hold monthly telecons for development of the outreach CD. Teresa Kinney has contacted MSC/NASTRAN about their training CD which we may be able to use as a template. Ted Rose of MSC is willing to lend a hand to the subcommittee. There was some discussion on the cost of producing the CD with an estimate of around \$100K.

Mr. Paul Taylor reported there are 14 students enrolled in the Aircraft Loads Short Course. Dr. Carlos Cesnik there are also 14 students enrolled in the Aeroelasticity class.

Dr. John Kosmatka solicited proposals of projects that could be funded by the SDTC funds.

PUBLICATIONS.

Don Edberg was recognized for his efforts in editing the “Year in Review” article for the SDTC.

Don thanked contributors to last year’s article. He volunteered to edit this year’s article. Please start the clearance and approval of items early so Don has the information gathered in time to compile the article.

SECRETARIAT.

The SDTC account balance is currently \$3500.

Sue Janssen circulated a roster for corrections.

LIAISON.

Flight Test TC (from Kirit Patel)

- a) The meeting minutes from the last two meetings include short reviews of flight test activities and status from each member’s company/organization. Kirit will have a copy of these minutes for review.
- b) In the discussions of this TC, issues such as the no-paper/no-podium rule, timelines for papers, high conference fees, session organizations, and invited papers with no paper were discussed.

Applied Aerodynamics TC (from Kirk Dotson)

- a) The APATC is trying to strengthen its technical emphasis; several members believe that the TC has become largely administrative. However, technical project teams formed to address four top technical issues have foundered because of diminishing membership and the loss of team leaders. The TC proposes disbanding these teams in favor of (not yet formalized) technical subcommittees.
- b) The acceptance rate for the 2000 Applied Aerodynamics Conference was only 71%. Even so, the APATC finds that too many papers are being declared marginal and that more rejections are warranted. The TC also desires to hold more panel sessions and sessions that emphasize education, as well as to find ways to boost last-day attendance.

Bruce Willis is rotating off the Structures TC and is joining the SDTC. Bruce is active in the AL-MS Section and has been active in the Structures TC. John Lassiter is recommending Bruce be liaison to the Structures TC. This TC is perhaps one of the most important ones we need to interface with.

Structures TC (from Mr. Bruce Willis)

- a) J. Kudva is the new Chair of the Structures TC.

- b) The committee hosted a speaker from Boeing Phantom Works. highlights from the talk included multi-discipline design/analysis/manufacturing, learn lessons from nature, embedded systems, and factors of safety (are they obsolete?).
- c) The industry has the impression that “Structures” is a mature discipline so R&D is slowing. But there are still challenges!
- d) Structures TC had 181 papers submitted, of which 150 were accepted for presentations in 20 sessions.

John Lassiter is also soliciting ideas for improving the functions of the Liaison Subcommittee. Any suggestions on what should be done, what should not be done, and anything in between should be brought to his attention. John suggests the SDTC revisit the charter of the Liaison Subcommittee, make changes as required, and find one or two activities from other TCs that would benefit from our attention, input, and joint participation.

TECH TRANSFER.

George Wacker noted the SDTC web page needs updates, please provide inputs to Dan Worth. George also solicited any suggestions for subcommittee activities.

CONFERENCES.

Mr. Paul Taylor recognized Hyoung-Man Kim and Dale Pitt for their efforts in organizing sessions this year. There were a lot of challenges because of electronic system problems.

Hyoung-Man Kim thanked everyone who helped review abstracts and supported preparations for the SDM. He has compiled a list of “lessons learned.” One problem discovered with the on-line system was that the software does not check for duplicate submittals.

There was discussion on the number of papers submitted. Pat Goggin suggested the numbers are increasing because there are many Forums as well as Technical Committees. As mentioned in past years, the acceptance rate is too high. There should be fewer sessions with QUALITY papers. Mike Tinker noted that the Propulsion conference has more parallel sessions than the SDM. Hyoung-Man also reported IMAC has many more papers than the SDM. It was generally agreed that the SDM should be 3 ½ to 4 days long and should not be extended to 5 days.

2. OLD BUSINESS

Old business was discussed in the subcommittee reports. No other items were introduced.

3. NEW BUSINESS.

new business

6. ADJOURNMENT.

The fall TC meeting will be scheduled at a later date. Pat Goggin suggested the meeting be held in conjunction with the Flutter Dynamics Council in October. [Note: The fall 2001 meeting was cancelled due to travel restrictions following the 11 September Terrorist Attacks.]

Dr. Tom Zeiler motioned to adjourn the meeting. SDTC meeting was adjourned by acclamation at about 21:00 hours.

7. ATTENDANCE.

Members:

Dr. Kenneth Alvin
Dr. Jeffery Bennighof
Mr. Robert (Terry) Britt
Dr. Kirk Dotson
Dr. Donald Edberg
Dr. Peretz Friedmann
Dr. Lucas G. Horta
Ms. Susan Janssen
Dr. Conor Johnson
Dr. Hyoung-Man Kim
Ms. Teresa Kinney
Dr. Donald L. Kunz
Mr. Wen-Liu Miao
Dr. Kirit Patel
Mr. Darryll Pines
Dr. Dale Pitt
Mr. Ralph Tate
Mr. Paul Taylor
Dr. Michael Tinker
Mr. George Wacker
Dr. Y.C. Yiu

Visitors:

Dr. Eric Austin
Dr. Mark Whorton

Notes:

1. The Chair strictly enforces the attendance rule. Committee participation is solely at the discretion of the committee Chair. If your name is not listed here, please confirm with Chair that your absence is excused.
2. The attendance reflects those who registered on the attendance roster their presence. The Secretary keeps the official attendance on a roster. It is your responsibility to register your attendance and confirm your bios.