

**MINUTES
OF THE
AIAA STRUCTURAL DYNAMICS TC MEETING
NASA/LANGLEY RESEARCH CENTER
LANGLEY, VIRGINIA
23 OCTOBER 1997**

1.0 INTRODUCTION.

The Fall '97 meeting of the Structural Dynamics Technical Committee (SD TC) was held on 23 October 1997 at NASA's Langley Research Facility. Prior to the SD TC business meeting, NASA provided the committee a tour of several Langley facilities: TDT, COLTS and ALDF. Over lunch, the various SD TC subcommittees caucused for discussions of upcoming events and needs.

1.1 CALL TO ORDER.

Marc Regelbrugge, SD TC Chair, called the SD TC meeting to order at approximately 1300 Hours. Marc thanked Boyd Perry for NASA's hospitality in offering tours, presentations and meeting facilities. Following the call to order, several special presentations were given to provide an overview of NASA/LaRC's peculiar capabilities and charter. Irving Abel solicited committee support for AIAA sponsorship of the "International Forum on Aeroelasticity and Structural Dynamics" of the Congress of European Aerospace Societies (CEAS). This forum would be held 22-25 June 1999 in Williamsburg, VA (see New Business).

Minutes are reported in same order as agenda.

1.2 MINUTES OF LAST MEETING.

Two errors were observed and corrected:

1. Section 2.2, Para 1: "Jenson" should read "Jensen".
2. Section 5.0, Para 1: "AIAA is reworking its charter and has requested help." should read "AIAA requested SD TC review our charter and submit for AIAA records."

Dr Peretz Friedmann moved to accept the minutes as amended; Mr Terry Britt seconded. Committee voted to accept the minutes as amended.

2.0 SUBCOMMITTEE REPORTS.

2.1 CONFERENCES SUBCOMMITTEE.

2.1.1 '99 SDM Conference - St Louis (Presented by Regelbrugge).

Thomas Strganac (TAMU) is General Chair with Ed White (Boeing-StL) as Technical Chair. The selected conference site will be Hyatt Regency - Union Station in St Louis which will also host the 1998 AIAA MDO Conference. Like the '97 and '98 SDM conferences, the '99 SDM has been offered a four (4) day venue.

Since the SD TC is "host" for 1999, Thom is soliciting names for Student Papers Chair, a Work-In-Progress Chair and an Exhibits Chair. (See Griffin to submit names.) He also

solicits the committee for conference “themes”. Thom suggested several ideas using the year 1999 as impetus to look backward and forward in the accomplishments of aerospace.

Thomas reported several additional items that may affect committee members. First, the abstract form has been revised to hopefully force conformity with the 1000 word format. This will eliminate “wordy” and “draft paper” abstracts. Thom has recommended that the 1999 SDM be the first to issue the proceedings on CDs alone. The organizing committee hopes to involve the local AIAA chapters to support the conference which may reduce costs. There is additional concern about the viability of special sessions (plenary, panels, IPT, etc). The session chair reports will be reviewed for special session popularity which may result in returning sessions to the author format. The IPT format appears to have died, again. Session chairs will be strongly reminded to keep their sessions on schedule, keep room statistics and “best paper” nominations, and to strictly enforce the “no-paper, no-podium” rule.

Finally, Thom wishes to express his gratitude to Patrick Goggin for a job well done in organizing 1998TC sessions. He was very well prepared.

2.1.2 ‘98 SDM Conference - Long Beach.

Patrick Goggin thanked all those who reviewed abstracts for the 1998 SDM. Abstract statistics: 403 submitted, 145 Structural Dynamics, 140 met submittal deadline. There will be no “multimedia” sessions or IPS sessions. The conference will run with 10 sessions running concurrently.

Paper quality and attendance were again an issue. Acceptance ratio was 0.86, 0.83 excluding Military Aircraft Technology special sessions. Special sessions seem to be a way to improve paper quality. Cut-off score for Structural Dynamics was 1.33 which compares favorably with 1997 SDM cut-off. Were the acceptance ratio raised to 1.5, a 0.75 acceptance ratio would be realized. Attendance statistics were also presented. [Sec’y note: If you need the distribution graphics, contact Ralph Tate (972) 603-1968.]

Additional issues. Only one student paper was presented to the ‘98 SDM. There remains a question as to disposition of the Jefferson Goblet award. The Conferences Subcommittee is preparing a Lessons Learned document for future SDM representatives.

2.2 AWARDS SUBCOMMITTEE.

Much of the Awards Committee’s work will begin in the near future. Between now and April the committee will be working on nominations for the SDM award, AIAA Fellow, etc. Nomination forms are accessible on-line via the AIAA web page. Committee members are urged to upgrade to Sr. Member for consideration as Associate Fellow. These forms are also available on-line.

Only one student paper was submitted to the ‘97 SDM. It was a very good paper and received the Student Paper award -- would have probably won the award anyway.

2.3 SECRETARIAT SUBCOMMITTEE.

The minutes are now available on-line at the SD TC’s web page. Future minutes will be posted on the committee web page. This saves a considerable amount of money and effort by eliminating the US Mail. Subcommittee chairs are also encouraged to forward electronically their reports to the committee secretary to improve accuracy of reporting.

Dr. Fred Tasker revised the New Members Handbook. This handbook is also posted on the committee web site. Fred will maintain the handbook on the web site. Additionally, Fred plans to shortly post the committee's photo roster to the web site. SD TC members are encouraged to get a photo (passport type will do) to Fred ASAP.

The committee discussed the viability of posting the complete roster (addresses, phone numbers, E-mail URLs, etc) on the SD TC web site. For privacy reasons, this may not be feasible even with a "fire wall". Such arrangements also complicate web site maintenance.

Patrick Goggin suggested that interests/specialties should be available with the roster. Secretariat was tasked to accomplish this format, since it may help in distributing abstracts for review and assigning session chairs. New roster format will be available after '98 SDM meeting to include new committee members. [Sec'y note: While this roster has been maintained in the past, it was not used for distributing abstracts, but was used for selecting session chairs and miscellaneous committee work. Committee members should expect to review some abstracts outside their direct discipline.]

2.4 PUBLICATIONS SUBCOMMITTEE.

The annual year end review article has been submitted to Aerospace America -- just made the 600 word limit. Terry Britt requests the committee to be thinking of items for 1999's submittal.

The Publications Subcommittee also requests listing on the web site agendas from other conferences on Structural Dynamics. Also, Terry suggests that book reviews performed by the committee may be posted to the web site.

2.5 EDUCATION SUBCOMMITTEE.

Collection of video materials for high school and college education in Structural Dynamics is nearing completion. These materials need to be organized, scripted and produced. The subcommittee solicits assistance in locating firms that might help with facilities and funding such production. *Susan Janssen volunteered to investigate use of Lockheed Martin Astronautics' publications department for this purpose.*

The science fair booklet, prepared by Neradka, received some feed back. Denver area teachers and engineers who judge science fairs evaluated the book and returned their comments.

AIAA is preparing ads for AA for Paul Taylor's loads course offered in conjunction with SDM.

2.6 LIAISON SUBCOMMITTEE.

TAC (Technical Activities Committee) is requesting broader interaction with other TCs. Committee members who serve or visit other TCs should notify the Liaison Subcommittee chair. Those with parallel interests who attend other conferences (eg: MDO, GNC, etc) should contact the Liaison Subcommittee chair.

2.7 TECHNOLOGY TRANSFER SUBCOMMITTEE.

A link was established to the Active Aeroelastic Wing web site from the SD TC web page. Some of the data is password protected. Access on a need-to-know basis can be obtained thru Wright-Patterson AFB upon request.

The Technology Transfer Subcommittee would like the roster posted to the SD TC web page, if only a list of committee members.

3.0 OLD BUSINESS.

3.1 GENERAL.

The "Flight Simulation Technical Committee" was renamed the "Modelling and Simulation Technology Technical Committee" effective July 1997.

The Adaptive Structures Technical Committee was approved by TAC in August 1997. They will have their first meeting at the '98 SDM. Some SD TC members cross-fertilize with Adaptive Structures TC. This may afford for some synergy between the committees.

3.2 TAC-MISSION AND VISION.

The Design and Technologies TAC is preparing a new "Mission and Vision" statement to implement their TAC 2005 organization plan. Marc Regelbrugge, SD TC Chair, needs to respond to TAC shortly with our comments. The overall sense of the committee was that TAC's wording was too strong and either inconsistent or incongruous with their objectives.

Committee members noted that TAC had a restricted view of AIAA membership. The TAC statement needs to define who our "customers" and what their "expectations" are before moving ahead. Is this another thrust to reorganize along aerospace product line? Several committee members observed that SD TC is far ahead of TAC on issues such as liaison ("cooperation"), "international" participation and information ("virtual") technology. Several members disagreed with the overall tone of the TAC statement. [Sec'y note: contact Marc Regelbrugge for a copy of the TAC Mission and Vision statement at - marc.regelbrugge@lmco.com.]

3.3 SD TC CHARTER.

The draft revision of the TC charter was reviewed. Chair requested that review and comments be forwarded prior to '98 SDM SD TC meeting. Come prepared to vote on the revised charter at the next TC meeting. [Sec'y note: If you need a copy, call Ralph Tate to have it faxed to you. (972)603-1968]

4.0 NEW BUSINESS.

The committee discussed Irving Abel's solicitation of SD TC's support for AIAA assistance with CEAS's '99 International Forum on Aeroelasticity and Structural Dynamics. CEAS desires only minimal support from AIAA -- basically promotional advertisement. Terry Britt motioned for supporting the forum; Boyd Perry seconded. The motion passed by acclamation.

5.0 ADJOURNMENT.

The next TC meeting will convene at 1800 Hours on 980421 at the '98 SDM in Long Beach, CA. Ralph Tate motioned to adjourn; John Maynor and George Wacker seconded. Motioned was passed by acclamation (understatement, more like, "Yippee!, lets go!!").

ATTENDANCE

Members:

Dr Philip Beran
Mr Terry Britt
Dr Kirk Dotson
Dr Donald Edberg
Mr Eric Flint
Dr Peretz Friedmann
Mr Patrick Goggin
Dr Ken Griffin
Dr William Hallauer
Ms Susan Janssen
Dr Conor Johnson
Dr Hyoung-Man Kim
Mr John Lassiter
Mr John Maynor
Mr Wen-Liu Miao
Dr Kirit Patel
Mr Boyd Perry
Mr Marc Regelbrugge
Mr Eric Reichenbach
Dr Edward Smith
Dr Fred Tasker
Mr Ralph Tate
Mr George Wacker
Dr Thomas Zeiler

Visitor:

Dr Andrew Kurdila

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 Sec'y keeps the official attendance on a roster. It is your responsibility to register your attendance and confirm your bios.