

**MINUTES
OF THE
AIAA STRUCTURAL DYNAMICS TC MEETING
Hyatt Regency - St. Louis Union Station
13 April 1999**

INTRODUCTION

The Spring '99 meeting of the Structural Dynamics Technical Committee (SDTC) was held on 13 April 1999 at the Hyatt Regency St. Louis Union Station in conjunction with the 40th AIAA SDM Conference.

1.0 CALL TO ORDER.

Dr. Mark Hopkins, SD TC Chair, called the TC meeting to order at approximately 1810 hours. During a catered meal, several housekeeping issues were covered: 2003 Centennial of Powered Flight, TAC Leadership Award, Space Inflatables Working Group, Web-Site Hosting, and International Members. Mr. Charlie Saff (replacing Mr. John Tracy on TAC) discussed several TAC issues: Long Range Planning Subcommittee, Joint Committee to Coordinate Subcommittees. Ms. Emily Davies and Mr. Brewster King (AIAA HQ conferences coordinators) were introduced and made summary comments.

Dr. Hopkins presented high points of his TAC workshop in January '99 at Reno. First, all technical activities should have component focusing on 2003 Centennial of flight. TAC also encourages coordination amongst technical committees. TAC has some budget for specific projects and encourages submittal of proposals. Web-sites will be moved to AIAA, which has established policies and procedures. The international sections are the largest growing sections; there will necessarily be discussions of handling NOFORN data.

Dr. Hopkins welcomed new members: Alvin, Denegri, Horta, and El-Aini. He then thanked outgoing members: Hallauer, Manning, Perry, Regelbrugge, Reichenbach, Strganac, Tasker, White and Maynor.

2.0 MINUTES OF LAST MEETING.

Several errors were noted in the Fall '98 minutes:

- Section 2, Awards, Para 3: "Critchlow" should read "Crichlow";
- Section 2, Publications, Para 1: "pair" should read "pare";
- Section 2, Publications, Para 1: "Kurt" should read "Kirk"; and,
- Section 2, Liaison, Para 3: "Reichenbaugh" should read "Reichenbach".

Mr. Patrick Goggin moved to accept minutes as corrected and amended. Mr. Paul Taylor seconded. Committee approved the motion by acclamation.

3.0 SUBCOMMITTEE REPORTS.

3.1 AWARDS.

The Crichlow Award went to Dr. Schmidt of UCLA. Dr. Peretz Friedmann continues to serve on the Long Range Strategic Planning committee. He hopes this committee will provide some stability. The Technical Chair for the 2000 SDM will be from the ASCE. The Technical Chair never has attended the SDM. Dr. Friedmann encourages all committee members to upgrade

their memberships (see AIAA web-site for forms). Associate grade needs TC support. TC support for fellow grade is harmful. TAC is now requesting five (5) candidates per award.

3.2 TECH TRANSFER/ASSESSMENT.

Mr. George Wacker reported that web-sites might be sales oriented. He is also soliciting key words for web-site. Does AIAA have key words list? Someone is needed to assume web-master for TC web-site. [Mr. Dan Worth has subsequently assumed this role.]

3.3 LIAISON.

Mr. John Lassiter rehearsed liaison assignments: Structures (Lassiter), Applied Aero (Dotson), Modeling/Simulation (Reichenbach), Adaptive Structure (Lassiter), Materials (Kosmatka), Ground Test (vacant), Flight Test (Patel), CAD/CAM (vacant) and MDO (Zeiler). Each subcommittee participant provided a synopsis of his activities. Structures TC is preparing a white paper for Congress. MDO 2000 will be held at the Westin Long Beach 6-8 September 2000; their theme is "MDO Value Added?" There is some perception that MDO may be oversold with "M" being emphasized over "O".

3.4 EDUCATION.

Ms. Susan Janssen reported that the Loads Class was very successful and well attended. A class on aeroelasticity was also well attended. In both cases, student reviews were positive and especially liked the wide range of topics. Dr. Tom Strganac suggests that TC prepare a textbook from these materials.

Since TC receives proceeds and instructors waived their honorarium, there arose a question of how to use funds. AIAA controls funds in an account on TC behalf. Dr. Andy Kurdila recommended buttressing student paper awards. Drs. Darryll Pines and Kurdila will form a working group to examine student paper problems and report at Spring '00 meeting in Atlanta. Dr. Hopkins suggested that anyone with ideas on how to use the funding should email those ideas to him for review.

Ms. Janssen requests assistance in preparing a storyboard and scripting for SD video. She solicits more footage – especially in rotorcraft.

3.5 CONFERENCES.

Mr. Ed White reported 525 attendees at the '99 SDM: 428 abstracts/383 accepted – 10.5% rejection rate; 301 papers in printed proceedings. Seventy-two (72) sessions were held including 10 in Adaptive Structures and 8 in NDA. All sessions proceeded smoothly and well.

Dr. Strganac reported that SD TC representatives will chair the SDM again in 2004. The Strategic planning committee needs to identify someone soon from the SD TC. The rotation established by Dr. Ken Griffin is needed to manage chair workload.

The TC warmly applauded both Mr. White and Dr. Strganac for their efforts.

Mr. Goggin reminded TC of the CEAS conference in Williamsburg 23-25 June 1999. Mr. Taylor also reminded TC to contact Dr. Phil Beran for abstract reviews for DSC in '00. Special sessions should discourage all papers from one company. Organizer should not be involved with review to insure quality control integrity. TCs must sponsor all special sessions. Dr. Beran said that deadline for abstracts is 2 August 1999 and that they must be returned and tallied by

24 September 1999. Deadline for special sessions is 9 July 1999. Dr. Kurdila is back-up to Dr. Beran and will be technical chair in 2001.

Dr. Mike Tinker made an appeal for input to the 2000 DSC. The theme will be "Structural Dynamics: Past, Present and Future". Dr. Kirk Dotson allowed that Fred Culick would be the keynote speaker discussing the Wright 1903 Flyer.

3.6 PUBLICATIONS.

No report.

4.0 OLD BUSINESS.

None.

5.0 NEW BUSINESS.

Dr. Hopkins proposed to TC establishing a chair elect. This will require a four-year commitment. Forward nominees to him by the Fall meeting. Chair rotation needs to be maintained.

Mr. Worth has accepted the position as new TC web-master.

Dr. Hopkins requested forming of working groups and steering committees to look at SD TC future direction.

Voting has been low for TAC representatives. The last election only scored a 12% response. It is very important to vote in order to control our future.

TAC also requests greater international membership/participation in TCs. Attendance is only required once per year, but members must be AIAA members.

Draft ISO standards on structural dynamics and space applications are available for review. Although short notice, these reviews need to be completed shortly. Check with Technology Transfer subcommittee.

6.0 CLOSURE.

The next TC meeting will be hosted by NASA MSFC on 20 October 1999. Both CSA and UCSD were thanked for offering their facilities for meeting. Mr. Ralph Tate moved to adjourn; committee seconded motion. Meeting was adjourned by acclamation at 2238 hours.

**ATTENDANCE
SD TC MEETING
13 April 1999**

Reminder: Attendance at SD TC meetings is mandatory unless the chair excuses an absence. This is the official attendance record for the meeting. Please advise if there be an error in registering your presence.

Members:

Dr. Jeff Bennighof
Dr. Philip Beran
Dr. Carlos Cesnik
Dr. Charles Denegri
Dr. Kirk Dotson
Dr. Don Edberg
Dr. Yehia El-Aini
Dr. Peretz Friedmann
Mr. Patrick Goggin
Dr. Mark Hopkins
Dr. Lucas Horta
Ms. Susan Janssen
Dr. Conor D. Johnson
Dr. Hyoung-Man Kim
Dr. John Kosmatka
Mr. John Lassiter
Dr. Michael Lou
Dr. Yuji Matsuzaki
Mr. Wen-Liu Miao
Dr. Kirit Patel
Dr. Darryll Pines
Mr. Ralph Tate
Mr. Paul Taylor
Dr. Michael Tinker
Mr. George Wacker
Mr. Daniel Worth
Dr. Y.C. Yiu
Dr. Thomas Zeiler

Visitors:

Mr. Robert Moses for Mr. Boyd Perry III
Dr. William Hallauer
Mr. Chad Herbert
Mr. Thomas Manning