

1.0 THE STRUCTURAL DYNAMICS TC.

The Structural Dynamics (SD) Technical Committee (TC) is one of 65 TCs which develop and administer the national technical programs of the AIAA. Through the Technical Activities Committee (TAC), its Technical Groups, and its Technical Committees, the institute conducts over 20 technical conferences each year. Other important roles include the support of short courses, scholarships, standards, technical assessments, and policy papers.

The SD TC is organized under the AIAA Structures, Design and Test Technical Group headed by Dr Ben Wada. Within the TC, John Tracy, as the Deputy Director for Materials and Structures, oversees the activities of the SD TC.

1.1 CHARTER.

The SD TC considers the interaction of aerodynamic, dynamics, elastic, damping, inertia, and control forces acting on vehicles and structures. Included are response and stability investigations of linear and nonlinear systems using analytical, empirical, and experimental techniques.

1.2 COMMITTEE MEETINGS.

The SD TC holds meetings twice a year. One meeting is held each Spring in conjunction with the April SDM conference on the second evening at 6 pm. The time and location of the Fall meeting is determined at the Spring meeting. TC members are required to attend both meeting; members may petition committee chairperson for excused absences.

1.3 CURRENT MAKE-UP.

The current make-up of the SD TC includes 39 Members and 1 Liaison Member. Of these, 19 are from Industry, 12 from Universities, 12 from US Government, and 1 from an International University.

2.0 STRUCTURAL DYNAMICS TC ACTIVITIES AND RESPONSIBILITIES.

The SD TC participates in the organized planning of conferences/sessions, education/training aids, information gathering, assessment and distribution, promotion of cross-discipline activities, and promotion of SD candidates for awards and recognition.

2.1 AWARDS.

The SD TC seeks to identify and promote outstanding structural dynamicists for influential awards, positions, and recognition. In particular, the SD TC nominates and evaluates candidates for the Structural Dynamics and Materials Award, the Jefferson Goblet

student competition, and promotions to AIAA Associate Fellowship and Fellowship positions.

2.2 CONFERENCES.

The SD TC helps support, organize, and staff several conferences each year. These conferences include the Structural Dynamics and Materials Conference, the Dynamics Specialist Conference, the Adaptive Structures Forum, and the Multi-Disciplinary Optimization Conference. The TC also organizes SD sessions (and possibly panel discussions) at other AIAA meetings.

2.3 EDUCATION.

There exist a number of education activities in which the TC participates. These include sponsoring short courses, assembling and distributing Science Fair Booklets, compiling a structural dynamics videotape, and establishing a student outreach program. The goal of these activities is to enrich the technical community's understanding of structural dynamics and to promote understanding of its importance in aerospace systems.

2.4 LIAISON.

The SD TC establishes/maintains contacts and exchanges information with other TCs as appropriate. The SD TC also participates regularly in other TC meetings as practical.

2.5 PUBLICATIONS.

Each Year, the SD TC prepares and submits a one-page SD highlights article for inclusion in Aerospace America. TC members are solicited to contribute to this article which seeks to provide a broad prospective on advances in structural dynamics that have occurred in the past year. Other publications activities include promoting SD publications and maintaining TC orientation material.

2.6 SECRETARIAT.

TC secretariat activities include preparation and distribution of meeting minutes, maintenance of current member list and photo roster, and maintenance of annual report.

2.7 TECHNOLOGY ASSESSMENT/TRANSFER.

As part of technology assessment/transfer activities, the SD TC assesses the state-of-the-art in aerospace structural dynamics and identifies directions for the continuing development and application of structural dynamics technology. Technologies which are ready for applications are promoted for transfer to practice.

The TC also participates in the development of effective mechanisms for technology transfer and in the preparation of white papers as necessary.

3.0 AWARDS.

The SD TC s organized into functional subcommittees which accomplish moth of the TC work outlined above. All TC members belong to one or more of these subcommittees which typically meet in conjunction with the full TC. The following is a list of the current chairpersons:

<u>SUBCOMMITTEE</u>	<u>CHAIRPERSON</u>
AWARDS.....	Peretz Friedmann
CONFERENCES.....	Don Kunz
EDUCATION	Larry Freudinger
LIAISON	Dale Newton
PUBLICATIONS.....	Terry Britt
SECRETATIAT.....	Ralph Tate
TECHNOLOGY/TRANSFER.....	Marc Regelbrugge