

CALL FOR PAPERS

ADAPTIVE MATERIALS AND SYSTEMS SYMPOSIUM

to be held at the

INTERNATIONAL MECHANICAL ENGINEERING CONGRESS AND EXPOSITION
WINTER ANNUAL MEETING OF THE ASME

November 5-10, 2006
Chicago Hilton & Tower
Chicago, IL

Sponsored by the Adaptive Structures & Material Systems Technical Committee, Aerospace Division

Purpose

The field of Adaptive Structures and Materials Systems often requires synergistic efforts across sectors of universities, government and industry. Historically it has driven innovative interdisciplinary research, combining the traditional fields of mechanical, aerospace, electrical, materials, and civil engineering. The symposium's purpose is to bring together basic and applied researchers from many disciplines to identify areas of synergy and help spur further technological advances.

Symposium Topics

Submitted papers should contain significant advances in either applications of adaptive material systems and structures, or analysis tools and techniques. Papers are especially requested which describe successful product development projects in the Adaptive Structures and Material Systems arena. Examples of topics may include but are not limited to the following areas:

Adaptive Systems and Applications

Precision motion, vibration and acoustic control
Active control surfaces and shape control
Health monitoring & damage detection
Adaptive structures, sensors and actuators design
System design/compliant mechanism design
CAD, visualization & optimal system design methods
Industrial/Government Adaptive System Applications
Intelligent and Adaptive Control

Adaptive and Multifunctional Materials

Material modeling & energy methods
Micromechanics of actuators & sensors
Material design techniques
Material formulations and evaluation
Interface and interaction modeling
Damage evaluation and suppression
Novel manufacturing technologies
Smart electronics and devices, MEMS & NEMS

Schedule:

400 word abstract due:	March 6, 2006
Authors informed of abstract acceptance:	March 30, 2006
Draft of manuscript due:	May 30, 2006
Authors informed of manuscript acceptance:	July 28, 2006
Final camera ready manuscript due at ASME:	August 21, 2006

Participation

ABSTRACTS SHOULD BE SUBMITTED ELECTRONICALLY USING THE ASME 2006 CONGRESS WEBSITE.

Please do not send email or paper abstracts to the General or Technical Chair. INSTRUCTIONS FOR ABSTRACT SUBMISSION ARE INCLUDED ON THE FOLLOWING PAGE. Questions regarding any aspect of the symposium can be directed to the symposium chairs listed below. Papers will appear in a reviewed archival ASME symposium volume or CD. Selected papers will be published in a special edition of the *Journal of Intelligent Material Systems and Structures*.

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