



ANNOUNCEMENTS

PRELIMINARY ANNOUNCEMENT

19TH INTERNATIONAL CONGRESS OF THEORETICAL AND APPLIED MECHANICS

Kyoto International Conference Hall, Kyoto, JAPAN
August 25-31, 1996

The 19th International Congress of Theoretical and Applied Mechanics will be held August 25-31, 1996, in Kyoto, Japan, under the auspices of the International Union of Theoretical and Applied Mechanics (IUTAM). The Congress will cover the entire field of theoretical and applied mechanics. The scientific program of the Congress will consist of two General Lectures for the Opening and Closing Sessions, Invited Sectional Lectures, Mini-symposia, Lecture Sessions, and Seminar Presentation Sessions.

The following six topics will receive special attention as subjects of the Mini-symposia:

<i>Vorticity dynamics and turbulence</i>	<i>Mechanics of heterogeneous and composite solids</i>
<i>Non-Newtonian fluid flow</i>	<i>Solid mechanics in manufacturing</i>
<i>Aero- and hydroacoustics</i>	<i>Structural optimization</i>

The following topics are selected for Pre-nominated Sessions:

Fluid mechanics

Biological fluid mechanics; boundary layers; combustion problems; compressible flow; computational fluid mechanics; diffusion problems; experimental methods in fluid mechanics; flow instability and chaos; free surface/interface problems; geophysical fluid dynamics; magnetohydrodynamics; multi-phase flows; reacting flows; thermodynamics; topological fluid mechanics

Solid mechanics

Active and passive structural control; biomechanics; chaos in dynamics; computational solid mechanics; contact and friction problems; dynamic plasticity of structures (crash mechanics); elasticity; experimental methods in solid mechanics; fracture and crack mechanics; impact and wave propagation; material instabilities; multi-body dynamics; plasticity; plates and shells; rock- and geomechanics; scaling laws for mechanics of fracture; stability of structures; structural vibrations; viscoelasticity and creep

Solid-fluid mechanics

Earthquake engineering; environmental fluid and solid mechanics; fluid-structure interaction problems; sport mechanics

Papers on other topics of theoretical and applied mechanics are equally welcome and will be organized in other Sessions.

Participants who wish to contribute a paper to the Congress are asked to submit seven copies of an extended Summary (500 words) and seven copies of a brief Abstract (100–150 words, single page, double-spaced, with full name and full address of the author[s]). All authors must submit this material directly to the Congress Office to arrive no later than January 15, 1996.

A limited amount of funds will be available for partial support of young participants. Requests will be considered at the time that the papers for the Congress are selected.

Those who wish to be placed on the circulation list for subsequent announcements should write to the Congress Office at the following address:

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**SYMPOSIUM SPONSORED BY THE NORTH AMERICAN SOCIETY OF
BIORHEOLOGY****EXPERIMENTAL BIOLOGY 1994: ANAHEIM CA, APRIL 25, 1994***MECHANICAL STRESS AND CELL FUNCTION**Chairman: Dr. John Frangos, Penn State University*

<u>Speaker</u>	<u>Time</u>	<u>Title of Presentation</u>
Peter Davies Department of Pathology University of Chicago	8:30 a.m.	Endothelial Mechanotransduction: Cell Surface Dynamics
John Frangos Department of Chemical Engineering Penn State University	9:00 a.m.	Mechanical Transduction and G-proteins
Peggy Girard School of Biology Georgia Institute of Technology	9:30 a.m.	Role of Tyrosine Phosphorylation in Endothelial Responses to Shear Stress
Laurence Thibault Department of Bioengineering University of Pennsylvania	10:00 a.m.	Cellular Response to Controlled Substrate Deformation
Bauer Sumpio Department of Surgery Yale University	10:30 a.m.	Signaling Pathways in Vascular Cells Exposed to Cyclic Strain
Larry McIntire Department of Chemical Engineering Rice University	11:00 a.m.	Stretch Effects on Cellular Function and Protein Synthesis