

ANNOUNCEMENT

TWENTY-SECOND MIDWESTERN MECHANICS CONFERENCE

University of Missouri–Rolla, Rolla, Missouri

7–9 October 1991

The Twenty-second Midwestern Mechanics Conference will be hosted by the Department of Mechanical and Aerospace Engineering and Engineering Mechanics and the School of Engineering at the University of Missouri–Rolla on 7–9 October 1991.

Organizing committee:

Martin C. Jischke (Honorary Chairman of the Conference), Bassem F. Armaly (Conference Co-Chairman), Romesh C. Batra (Conference Chairman), Robert L. Davis, Leslie Koval and Walter Eversman.

General information:

Midwestern Mechanics Conferences have been held every 2 years since 1949. The program will consist of key-note and invited speakers, as well as contributed papers in all areas of mechanics, basic or applied, theoretical or experimental. Some topics of interest are:

Mechanics of solids

Impact
Elasticity
Plates and shells
Dynamic stability
Vibrations
Dynamics
Composite materials
Curved beams
Lattice structures
Residual stresses
Contact problems
Stress waves
Random vibrations
Material behavior
Rotating structures
Thermoelasticity
Buckling
Fracture mechanics
Fatigue
Viscoelasticity and plasticity
Tribology
Continuum mechanics
Mechanics of microstructures

Experimental mechanics

Photoelasticity
Holography
Experimental stress analysis
Laser applications
High temperature measurements
Flow visualization
Acoustic field visualization
Modal analysis
Acoustic emission

Mechanics of interaction

Fluid–structure interactions
Acroelasticity
System dynamics
System modeling

Analytical and numerical methods

Boundary element method
Finite differences
Finite elements
Boundary value problem mathematics

Fluid mechanics

Incompressible flow
 Gas dynamics
 Turbulence
 Flow in material processing
 Hydrodynamics
 Two-phase flow

Acoustics

Wave guide acoustics
 Aerodynamic sound
 Diffraction
 Sound-generating mechanisms
 Radiation

Interdisciplinary

Industrial applications
 Earthquakes
 Biomechanics
 Geomechanics
 Sports mechanics
 Manufacturing
 Intelligent systems
 Computer-aided design
 Smart structures

Heat transfer

Conduction
 Convection
 Radiation

Conference format :

Each day of the conference will begin with a key-note address followed by concurrent sessions.

Submission of abstracts :

Papers will be selected for presentation on the basis of contributed and invited abstracts. Abstracts of accepted papers will be published in a book which will be distributed at the meeting. Abstracts must not exceed two single-spaced typed pages. This includes references and illustrations which are to be reduced to the proper size and mounted in the text. Full names and mailing addresses of the authors must follow the title of the paper. The abstract must be typed on white bond paper (8 $\frac{1}{2}$ " \times 11") with 1 $\frac{1}{4}$ " wide margins on all four sides.

One typed original and one copy of the abstract should be mailed to Professor Batra before 1 April 1991. Notification of acceptance or rejection will be made by 15 June 1991.

Important dates :

- 1 April 1991 : Deadline to submit papers.
- 15 June 1991 : Authors will be notified whether or not their papers will be included in the conference program.
- 1 August 1991 : Preliminary program and registration material mailed to prospective participants.

Contact persons :*Technical information*

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