Wind-Excited Vibrations of Structures Coordinator: H. Sockel (Vienna)	21–25 September

Non-Equilibrium Thermodynamics with Application to Solids
    Coordinator: W. Muschik (Berlin)
	28 September–
	    2 October

Numerical Methods in Theoretical and Applied Fracture Mechanics
    Coordinators: C. A. Brebbia (Southampton); V. Z. Parton
    (Moscow)
	5–9 October

Advances in Database Theory and Applications Coordinator: L. Tenenbaum (Moscow)	19–23 October

IUTAM International Summer School

Continuum Mechanics in Environmental Sciences and Geophysics Coordinator: K. Hutter (Darmstadt)	22–26 June

Other Events

Mechatronics Coordinator: J. R. Hewit (Loughborough)	23–27 March

9th CISM-IFToMM Symposium on Theory and Practice of Robots
    and Manipulators
    Chairmen: G. Bianchi (Milan); A. Morecki (Warsaw)
	1–4 September

Meetings Hosted by CISM

Meeting of the EUROMECH Council	2–4 April

Meeting in Stochastic Programming
    Coordinators: G. Andreatta (Padua); G. Salinetti (Rome);
    P. Serafini (Udine)
	13–18 September

Summer School on Logic and Artificial Intelligence
    Coordinators: G. Amati (Rome); C. Sossai (Padova);
    D. Pedreschi (Pisa)
	28 September–
	    9 October

EUROCODE '92 Coordinator: S. Harari (La Garde)	26–30 October

SECOND U.S. NATIONAL CONGRESS ON
COMPUTATIONAL MECHANICS

16–18 August 1993

Hyatt Regency Hotel, Washington, DC

Sponsored by U.S. Association for Computational Mechanics
(an affiliate of International Association for Computational Mechanics)
Hosted by the Center for Computational Structures Technology, University of Virginia

Scope of Conference

The meeting will cover all aspects of computational mechanics. Both the mathematical foundations and applications of computational mechanics will be treated. Also, the role of computational mechanics in aerospace, shipbuilding, automotive, electronic, nuclear and other high-tech industries will be addressed.

Topics

- High-Performance Computing and Future Computing Environments
- Algorithms for New Computing Systems
- Artificial Neural Networks
- Artificial Intelligence, Knowledge-based and Expert Systems
- Advances in Visualization Technology
- Advances in Mesh and Model Generation Techniques
- Smart/Intelligent Computational Algorithms
- Discretization Techniques (e.g. Finite Elements, Boundary Elements, Spectral Methods and Finite Difference Methods)
- Stochastic Modeling Techniques and Probabilistic Methods
- Hierarchical, Multilevel and Adaptive Strategies
- Advances in Commercial Mechanics Software
- Validation of Numerical Simulations
- Mechanistic Base for Constitutive Relations
- Computational Models for Material Processing and Response
- Stability and Bifurcation Problems
- Instability and Chaos
- Simulation of Local Phenomena in Fluids and Solids

- Compressible, Incompressible and Transonic Flows
- Reacting Equilibrium and Nonequilibrium Thermodynamics
- Turbulence Modeling
- Computational Issues for Smart/Intelligent Material Systems and Structures
- Multibody Dynamics
- Computational Techniques for Energy and Environmental Systems (Nuclear, Solar and Wind Energy Systems)
- Computational Techniques for Earth Sciences (Geomechanics, Earthquake Mechanics, Oceanology and Meteorology)
- Computational Techniques for Thermal Sciences (Thermodynamics, Heat Transfer, Thermomechanics, Propulsion and Combustion)
- Computational Techniques in Biosciences (Skeletal Systems, Muscles, Tissues and Organs)
- Computational Aeroacoustics
- Computational Electromagnetics
- Multidisciplinary Interactions and Computations (Structures/ Controls/Aerodynamics/ Electromagnetics)

Submission of Abstracts

Prospective authors should submit five copies of an extended abstract of about 1000 words including sample figures.

Dates

8 May 1992   Last date for submission of abstract

10 July 1992   Notification of paper acceptance

Site of Conference

The conference will be held at the Hyatt Regency Washington on Capitol Hill. Hotel rooms will be available at a reduced rate of $100 per night, single; $110 per night, double.

Format

Exhibits of advanced products by both software and hardware vendors are planned. Plenary, regular and poster sessions are also planned.

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