

## ANNOUNCEMENTS

### 13TH INTERNATIONAL CONFERENCE ON NUMERICAL METHODS IN FLUID DYNAMICS

6-10 July 1992, Rome, Italy

*Organized by:* Dipartimento di Meccanica e Aeronautica, Università di Roma, La Sapienza, Istituto di Macchine ed Energetica, Università di Bari

The aim of the conference, which will cover all areas of Computational Fluid Dynamics, is to bring together engineers, mathematicians and other scientists in the field of computational aerodynamics and fluid dynamics in order to review recent advances in mathematical and computational techniques for modelling fluid dynamics: this includes comparison of experimental results with computed predictions.

Two page abstracts (including sample figures) of contributed papers should be submitted before *1 December, 1991*: five copies are required. Notifications of acceptance will be given by 15 March, 1992. Camera ready copies of the final manuscript, complete with original drawings on glossy prints will be due at the conference. A volume of proceedings will be published after the meeting. Abstracts should be submitted according to the author's home country as follows:

#### USA

Professor M. Holt  
Dept. of Mechanical Engineering  
University of California  
Berkeley, CA 94720  
USA

#### USSR and Eastern Europe

Professor V. Rusanov  
Keldysh Inst. Appl. Mathematics  
Miusskaya Pl.4  
125047 Moscow A-47  
USSR

#### South Asia, Pacific Rim

Professor K. Oshima  
Inst. Space & Astro Science  
3-1-1 Yoshinodai  
Sagamihara  
Kanagawa, Japan

#### Canada, Western Europe, Israel

(and all other countries)  
Professor R. Temam  
Laboratoire D'Analyse Numerique  
Universite Paris Sud/Bat. 425  
91405 Orsay, France

A limited number of bursaries will be made available to young potential contributors born after 6 July 1962. Applications with abstracts should be sent to:

Professor P. J. Zandbergen  
Department of Applied Mathematics  
Twente University Technology  
PO Box 217  
7500 AE Enschede  
The Netherlands

## SYMPOSIUM ON HIGH-PERFORMANCE COMPUTING FOR FLIGHT VEHICLES

7-9 December 1992, Sheraton National Hotel, Washington, D.C., USA

Co-sponsored by University of Virginia, George Washington University and National Aeronautics and Space Administration with the co-operation of The American Society of Mechanical Engineers, The Air Force Office of Scientific Research and Defense Advanced Research Projects Agency

The two and a half day symposium will bring together leading experts in the areas of computational structural mechanics, computational fluid dynamics, computational control and high-performance computer technology. In addition to the regular sessions, a hardware/software exhibition is planned. Topics covered in the symposium include:

- Technology forecast for high-performance computing and future computing environment
- Distributed heterogeneous multicomputers
- Intelligent computational modules
- Parallel processing in fluid mechanics and structures calculations
- Mechanistic base for constitutive relations
- Simulation of local phenomena in fluids and solids
- Reacting equilibrium and non-equilibrium thermodynamics
- Advances in discretization techniques (finite elements, spectral methods and boundary elements)
- Validation of numerical simulations
- Computational models for material processing and response
- Probabilistic modelling of structures and fluids
- Adaptive, hybrid methods and hierarchical modelling approaches
- Mesh and model generation techniques
- Computational issues for smart/intelligent material systems and structures
- Stability and bifurcation problems
- Turbulence modelling
- Multibody dynamics
- Compressible, incompressible, transonic and reacting flows
- Advanced visualization techniques
- Multidisciplinary interactions and computations (structures/controls/aerodynamics/electro-magnetics)

Authors should submit five copies of an extended abstract of about 1,000 words including sample figures prior to 4 November, 1991. Notification of acceptance will be given by 6 January, 1992. Five copies of the final manuscript, complete with original drawings or glossy prints will be due by 29 May, 1992. A volume of proceedings will be published before the meeting. For information please contact:

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