

ANNOUNCEMENTS

9th INTERNATIONAL CONFERENCE ON NUMERICAL METHODS IN LAMINAR AND TURBULENT FLOW

10th-14th July 1995, Atlanta, Georgia, USA

Hosted by The George W. Woodruff School of Mechanical Engineering
Georgia Institute of Technology, Atlanta, Georgia, USA

OBJECTIVES

Coincident with the marketing and availability of extremely powerful workstations and accessibility of parallel computational facilities, the increase in research, algorithm development and applications in Computational Fluid Dynamics (C.F.D.) has been quite dramatic. It is, therefore, imperative that the dissemination of information relating to such research and associated C.A.D. and C.A.E. reflects the same degree of urgency in reporting state-of-the-art technology. It is the intention of the organizers that such current technology will be reported at the conference by providing a forum for the presentation of innovative research and industrial applications of C.F.D. The conference is intended to encompass, but not exclusive to, the following subjects:

Turbulence Models
Separation, Circulation
Vortex Dominated Flows
Navier-Stokes Solution Algorithm
Coupled Solid/Fluid Interaction
Forced Convection – Fluid and Fluid/Solid Interaction
Grid Generation
Acceleration Techniques
Free Surface Flows
Treatment for Near Wall Zones – Transfer of Shear and Heat
Aerodynamics – Low-Speed and Hypersonic
Non-Newtonian Flow

External Flows
Turbomachinery
Offshore and River Hydrodynamics
Meteorology

CALL FOR PAPERS

Abstracts of approximately 500 words proposing papers in the above or related fields of study are invited **immediately** or at the latest by **21st December, 1994**. Notification of acceptance will be forwarded within one month of the above date. As during previous meetings, the proceedings will be available at the time of the conference and, therefore, will be a state-of-the-art publication. To meet the requirement, authors must return completed manuscripts by **1st April 1995**.

ABSTRACTS

The 500 word abstract should be sent to:

Professor C. Taylor
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Swansea SA2 8PP, UK
Telephone: (44) 0792 295256
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Extended versions of meritorious papers will be considered for publication in the international journals – 'Numerical Methods in Fluids' and 'Numerical Methods for Heat and Fluid Flow'.

9th INTERNATIONAL CONFERENCE ON NUMERICAL METHODS FOR THERMAL PROBLEMS

17th–21st July 1995, Atlanta, Georgia, USA

Hosted by The George Woodruff School of Mechanical Engineering
Georgia Institute of Technology, Atlanta, Georgia, USA

OBJECTIVES

This conference will be the ninth in the series entitled 'Numerical Methods for Thermal Problems'. The continuing objective is the provision of a forum for the presentation and discussion of recent advances in the development and application of numerical methods to the solution of heat transfer problems. Some key areas include:

Conduction, Natural and/or Forced Convection and Radiation Heat Transfer
Fire and/or Combustion Modelling
Phase Change Problems
Solidification and Material Modelling in Casting, Welding, Forging and other Physical Processes
Thermal/Structure Interactions
Computational Algorithms
Adaptive, Remeshing Techniques in Heat Transfer
Innovations in Pre/Post Processing for Thermal Problems
Computational Aspects of Heat Transfer in Composites, Ceramics, Fibres, Plastics and Food Products

CALL FOR PAPERS

Abstracts of approximately 500 words proposing papers in the above or related fields of study are invited **immediately** or at the latest by **21st December, 1994**. Notification of acceptance will be forwarded within one month of the above date. Coincident with the notification authors will be advised on the recommended format for the preparation of manuscripts and relevant material will be forwarded to the author(s). As during previous meetings, the proceedings will be available at the time of the conference and, therefore, will be a state-of-the-art publication. To meet the requirement, authors must return completed manuscripts by **1st April 1995**.

ABSTRACTS

The 500 word abstracts should be sent to:

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SIXTH INTERNATIONAL SYMPOSIUM ON COMPUTATIONAL FLUID DYNAMICS

4–8 September 1995, Lake Tahoe, Nevada, USA

Sponsored by the Japan Society of Computational Fluid Dynamics

The symposium is the sixth in a successful series held in: Tokyo, Sydney, Nagoya, Davis, Sendai.

Several distinguished scholars are invited to present keynote lectures. A partial list includes:

A. O. H. Axelsson, D. Gaughey, R. Glowinski, S. K. Godunov, B. Gustafson, C. Hirsch, A. Jameson, H. O. Kreiss, P. Lax, A. Lerat, J. L. Lions, G. I. Marchuk, P. Moin, K. Morgan, N. P. Weatherill, S. Osher, K. Oshima, R. Peyret, J. Periaux, G. Schnerr and R. Ternam.

The Third Annual Lecture of CFD Journal will be delivered by Prof. N. Satofuka on Monday 4 September 1995.

Beside the Keynote Lectures, the program will consist of 36 sessions with an invited speaker in each session. Prof. K. Ghia (University of Cincinnati) and P. Kutler (NASA Ames) are the Chairmen of the technical and financial committees.

Topics of Interest are:

- i) Computer Hardware/Software Issues (e.g. parallel computations, flow visualization)
 - ii) Numerical Methods (grids, schemes, solvers and optimization techniques)
 - iii) Flow Simulations (in different regimes of Mach and Reynolds numbers)
 - iv) Interdisciplinary Areas (flows with heat and mass transfer, chemical reactions and flow interactions with structures and electromagnetic fields).
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For further information please contact:

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FINITE ELEMENTS IN FLUIDS NEW TRENDS AND APPLICATIONS

15–20 October 1995, Venezia, Italy

Organizing Committee

K. Morgan, Civil Engineering Dept., Univ. of Wales, Swansea (U.K.), M. Morandi Cecchi, Dip. di Mat. Pura ed Appl., Univ. di Padova (Italy), J. Periaux, Dassault Aviation Paris (France), O. C. Zienkiewicz, Inst. for Num. Methods in Eng., Univ. of Wales, Swansea (U.K.)

Program Committee

This committee will be composed by the organizing committee and by A. Dervieux (France), T. J. Hughes (U.S.A.), M. Kawahara (Japan), A. Maceri (Italy), J. T. Oden (U.S.A.), E. Oñate (Spain), J. Peraire (U.S.A.), A. Quarteroni (Italy), B. Schrefler (Italy).

Object of the Conference

The main goal of this 9th Conference on Finite Element Methods in Fluids is to collect new trends from all parts of the world with a special attention to the contributions of Europe. Special emphasis will be given to multidisciplinary applications involving several topics, such as:

Acoustics, Adaptive remeshing techniques in modelling, Aerodynamics and structural simulation for aeroelasticity applications, Aerodynamic and chemistry combustion for propulsion modelling, Biological flows, Combustion, Computational Electromagnetics, Environmental and global change for eco-science problems, Euler solvers, Finite volumes, Flow control, Fluid-structure inter-

action, Free surface flows, Geomechanic flows, Magnetodynamics, Mesh generation, Navier–Stokes solvers, Non Newtonian flows, Ocean Engineering, Parallel computations in flow problems, Reacting flows, Shallow waters, Time integration schemes, Turbulence models, Waves.

Call for papers

Abstracts of approximately 500 words proposing papers in the above or related fields of study are invited immediately or at the latest by 21 December 1994. Notification of acceptance will be forwarded within one month of the above date. Coincident with the notification authors will be advised on the recommended format for the preparation of manuscripts and relevant material will be forwarded to the authors. As during previous meetings, the proceedings will be available at the time of the conference and, therefore, will be a state-of-the-art publication. To meet the requirement, authors must return completed manuscripts by 30 April 1995.

People wishing to present a paper should send the abstract of about 500 words to

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INTERNATIONAL CONFERENCE ON ENGINEERING COMPUTATION AND COMPUTER SIMULATION (ECCS'95)

27–29 November 1995, Changsha, China

The Hunan University, Department of High Education of the Ministry of Machinery Industry, and the Computing Center of the Chinese Academy of Science, China, are to hold the above conference with the following general topics:

Mathematics/Algorithms

General theories of FEM and BEM; Development of FEs and BEs; Computational methods for geometric non-linearity; Contact-impact problems; Mesh generation/adaptive techniques; Geometry modelling and computer graphics

Structures

Vibration analysis/eigenvalue problems; Multi-body dynamics; Structural optimization; Stability analysis; Structural crashworthiness; Concrete structures; Pressure vessels and piping; Offshore and shipbuilding; Automotive/automobile/aircrafts

Materials

Constitutive modelling; Computational plasticity/creep; Computational methods for composites; Fracture mechanics problems; Material forming processes; Penetration processes

Other subjects

Fluid dynamics; Electrical and magnetic field problems; Coupled problems (thermomechanical, fluid-structure, soil-structure, etc.); Geomechanics problems; Biomechanics problems; Engineering database systems; Engineering expert systems; Animation and visualization

The proceedings will be published and made available to all conference participants. It is planned that the selected conference papers will constitute special issues of recognized international journals.

Original papers on the above and related subjects are invited. Prospective authors should submit a one-page abstract of their papers to the Conference Secretariat, as soon as possible, but not later than **May 31, 1995**. Notation of acceptance: July 15, 1995. The paper itself is required not later than **October 16, 1995**.

There will be a social programme and a sight-seeing programme for accompanying persons.

Conference Secretaries:

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