

## 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  
Department of Civil Engineering  
University of Wales  
Singleton Park  
Swansea SA2 8PP, UK  
Telephone: (44) 0792 295256  
Fax: (44) 0792 295705  
E-Mail: R.W.Lewis@Swansea.ac.uk

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'.

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## 3RD INTERNATIONAL CONFERENCE AND WORKSHOP ON APPROXIMATIONS AND NUMERICAL METHODS FOR THE SOLUTION OF THE MAXWELL EQUATIONS

Co-sponsored by GAMNI/SMAI and IEE

20-24 March 1995, University of Oxford, UK

The 3rd International Conference on Approximations and Numerical Methods for the Solution of the Maxwell Equations follows earlier successful conferences in Paris (1991) and in Washington, D.C. (1993). The objective of the Conference is to review progress and to assess the current status of numerical methods for the solution of the Maxwell equations. During the last decade, there has been rapid progress in the development of numerical methods in this area and one important consequence of this progress has been to allow access to radar cross section (RCS) predictions of increasing accuracy. With the advent of supercomputers, offering sustained terraflop performance, it is envisaged that a new degree of sophistication in electromagnetic predictive capability will be achieved.

The Workshop will compare, in terms of accuracy and computational efficiency, the performance of different numerical approaches to the solution of a number of test cases. Any person who has computed and documented the results of at least two of the selected test cases will be allowed to attend the Workshop. Highlights of the Workshop are expected to be: (a) an open comparison of numerical schemes; (b) identification of the shortcomings of existing numerical methods; (c) suggestions for further research and development.

### ORGANIZING COMMITTEE

F. El Dabaghi (INRIA, France), P. Irving (IMA), J. Périaux (GAMNI/Dassault Aviation, France), R. Le Martret (CEA, France), K. Morgan (University of Wales, Swansea, UK), K. Parrott (University of Oxford, UK).

### INVITED SPEAKERS

Among those who have been invited to speak at the Conference are: R. Agarwal (McDonnell Douglas Research Lab, USA), M. Kleinmann (University of Delaware, USA), J. C. Nedelec (Ecole Polytechnique, France), M. Jofrei-Roca (Barcelona, Spain), P. Roe (University of Michigan, USA), A. Taflove (Northwestern University, USA), N. P. Weatherill (University of Wales, Swansea, UK).

### WORKSHOP CONTRIBUTIONS

Potential contributors to the Workshop can obtain full details of the Workshop test cases from Dr K. Parrott, Oxford University Computing Laboratory, Wolfson Building, Parks Road, Oxford OX1 3QD, U.K.

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# THE INSTITUTE FOR COMPUTATIONAL FLUID DYNAMICS CONFERENCE ON NUMERICAL METHODS FOR FLUID DYNAMICS

3-6 April 1995, University of Oxford, UK

## Invited Speakers

H. Deconinck (VKI, Belgium)  
J. C. R. Hunt (Meteorological Office)  
M. A. Leschziner (UMIST)  
D. Mavriplis (ICASE, NASA Langley)  
K. W. Morton (Oxford)  
K. G. Powell (Michigan)  
A. Quarteroni (Milan)  
S. Rill (Deutsche Airbus GmbH, Germany)  
A. N. Staniforth (Quebec)  
B. Stoufflet (Dassault Aviation, France)  
J. Thomas (NASA Langley)  
N. P. Weatherill (Swansea)  
P. Wesseling (Delft)

This is the fourth international conference on CFD organised by the ICFD (Institute for Computational Fluid Dynamics), a joint research organisation at the Universities of Oxford and Reading set up in 1983 with the support of the SERC to collaborate with industry in this area. Previous conferences were held at the University of Reading in 1985 and 1992 and at the University of Oxford in 1988 in a series of conferences on the same theme held on the two sites over the last thirteen years.

The aim of the conference, as in previous years, is to bring together mathematicians and engineers and other scientists in the field of computational aerodynamics and computational fluid dynamics

to review recent advances in mathematical and computational techniques for modelling fluid flows.

The subject area is very large with many active researchers in industry, government laboratories and universities working on a wide variety of methods and applications. The conference will cover all areas of CFD but it is hoped to emphasise three main areas:

**Algorithms and algorithmic needs arising from applications**

**Navier-Stokes on flexible grids**

**Environmental CFD**

In addition to invited lectures the programme will include contributed talks of twenty minutes and poster sessions. These will be selected mainly on the basis of their likely contribution to the above themes.

Enquiries regarding the conference should be addressed to:

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Wolfson Building, Parks Road  
Oxford OX1 3QD  
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