

## 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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## 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:

Professor R. W. Lewis  
Institute of Numerical Methods in Engineering  
University of Wales  
Swansea SA2 8PP, UK  
Telephone: (44) 0792 295253  
Fax: (44) 0792 295705  
E-Mail: R.W.Lewis@Swansea.ac.uk

## CALL FOR PAPERS

### TENTH SYMPOSIUM ON TURBULENT SHEAR FLOWS

The Pennsylvania State University, University Park, PA, U.S.A., 14-16 August 1995

The Tenth Symposium on Turbulent Shear Flows aims to advance understanding of the physics of turbulent motion and capabilities for predicting momentum, heat and mass transport processes in turbulent shear flows.

Approximately 30 technical sessions are planned. Contributed papers are invited on original work in the following general areas:

*Fundamentals:*

Measurements, theories and concepts that illuminate the nature of turbulence.

*Turbulence Models:*

Developments in single and two-point closures; large-eddy and other numerical simulations.

*Experimental Techniques:*

Improved experimental methods for single and multi-phase turbulent flows.

*Computation Techniques:*

Advances in computation methods for single and multi-phase turbulent flows.

*Heat and Mass Transfer:*

Developments in scalar modeling; related measurements and calculations.

*Chemical Reaction:*

Developments in modelling of turbulent flames and other reacting flows; related experiments and calculations.

*Applications:*

Contributions to applied turbulent flows; including those concerned with internal and external aerodynamics, climate control in buildings, automobiles, electronic-packaging, gas turbines and internal combustion engines, chemical and metallurgical processes, nuclear and wind engineering, geophysical and stratified flows, meteorology and the environment.

#### ABSTRACTS

Paper selection will be based upon a review of extended abstracts of approximately 1000 words which should be double-spaced and state clearly the purpose, results and conclusions of the work with supporting figures as appropriate. Five copies of the abstract should be mailed (ABSTRACTS SENT BY FAX WILL NOT BE

ACCEPTED) to:

Professor F. W. Schmidt  
Secretary, Turbulent Shear Flows  
Department of Mechanical Engineering  
The Pennsylvania State University  
University Park, PA 16802, U.S.A.  
814-865-2072; FAX 814-863-4848

*Deadlines*

Final date for receipt of abstracts:  
15 November 1994.  
Authors informed concerning acceptance:  
15 March 1995.  
Final date for receipt of camera-ready  
manuscript: 15 May 1995.

#### 10th SYMPOSIUM PAPERS COMMITTEE:

J. Wyngaard, Chairman  
Department of Meteorology  
The Pennsylvania State University  
University Park, PA 16802, U.S.A.  
1-814-863-7714  
FAX 1-814-865-3663

F. Durst  
Lehrstuhl für Strömungsmechanik  
Cauerstraße 4  
8520 Erlangen, Germany  
49-9131-85-9501  
FAX 49-9131-85-9503

R. M. C. So  
Department of Mechanical and  
Aerospace Engineering  
Arizona State University  
Tempe, AZ 85287-6106, U.S.A.  
1-602-965-4119  
FAX 1-602-965-1384

J. H. Whitelaw  
Department of Mechanical Engineering  
Imperial College  
London, SW7 2BX, U.K.  
44-71-225-8966  
FAX 44-71-589-3905

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

Organized by the IMA  
Co-sponsored by GAMNI/SMAI and IEE

University of Oxford, U.K., 20–24 March 1995

The Third 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.

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).

### CALL FOR CONFERENCE PAPERS

Abstracts of 2000 words should be sent, by November 1st 1994, to Miss Pamela Irving, The Conference Office, The Institute of Mathematics and Its Applications, Catherine Richards House, 16 Nelson Street, Southend on Sea, Essex SS1 1EF, U.K. Authors will be informed of the verdict of the Paper Selection Committee by January 1st 1995.

### 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.