

## ANNOUNCEMENTS

### ANNOUNCEMENT AND CALL FOR PAPERS

#### Tenth International Conference on Finite Elements in Fluids

5-8 January 1998, Tucson, Arizona, U.S.A.

#### SCOPE

As the Finite Elements in Fluids Conference enters its 25 years of existence, gathering together researchers from all over the world who are engaged in computer modeling of all aspects of flow phenomena, this is the time to look back and try to assess the progress made so far and use it to look at the future.

The rapid progress made in previous years, in this and other aspects of science and engineering, is opening up new frontiers of research and causing changes that deeply affect how we do computations.

The strong conviction that one of the most efficient ways to exchange information and create strong working relations is by establishing personal contact among researchers engaged in all aspects of computer simulations of problems involving fluid flow, motivated the first of these conferences and continues to be the driving force behind this one.

#### TOPICS

All topics related to the numerical simulation of fluid flow phenomena are considered, these include but are not restricted to: Adaptive Meshing, Aeroacoustics, Aerodynamics, Algorithm Development, Atmospheric Dynamics, Bio Fluid Dynamics, Combustion, Crystal Growth, Electromagnetics, Error Estimation, Flow Control, Flow in Porous Media, Fluid Structure Interaction, Free Surface Flows, Gas Dynamics, Geomechanics, Heat and Mass Transfer, High Performance Computing, Lubrication, Magneto Hydrodynamics, Mathematics of Finite Elements, Mesh Generation, Multi Phase Flow, Non Newtonian Fluids, Ocean Engineering, Optimization, Reacting Flows, Seepage, Shallow Water Circulation, Transonic Flows, Turbulence, Wave propagation.

#### ORGANIZING COMMITTEE

Dr. R. H. Gallagher, U.S.A. (Chairman)  
Dr. M. Hafez, U.S.A. (Co-Vice-Chairman)  
Dr. J. C. Heinrich, U.S.A. (Co-Vice-Chairman)  
Dr. T. J. R. Hughes, U.S.A.

Dr. Mutsuto Kawahara, Japan  
Dr. M. Morandi Cecchi, Italy  
Dr. K. Morgan, U.K.  
Dr. J. T. Oden, U.S.A.  
Dr. E. Onate, Spain  
Dr. J. Periaux, France  
Dr. B. Shreffler, Italy  
Dr. O. C. Zienkiewicz, U.K.

#### CALL FOR PAPERS

Prospective authors are invited to submit 500 word abstracts of their papers by 15 February 1997. Submittance and enquiries should be addressed to:

Engineering Professional Development  
Harvill Building Room 235 Box 9  
The University of Arizona  
P.O. Box 210076  
Tucson AZ 85721-0076 U.S.A.  
Phone: 520-621-3054  
Fax: 520-621-1443  
E-mail: baltes@bigdog.engr.arizona.edu

All communications must be in the English language. Abstracts should be typewritten, double-spaced and submitted in triplicate. The first page should bear the title of the paper, names of authors, their affiliations and full mailing address.

Notifications of acceptance will be sent by 7 July 1997, when full instructions for preparation of the papers will be given. The final papers will be due on or before 1 October 1997.

#### FEES

The registration fees, including conference proceedings, lunches and social events, are \$375.00 US for participants and \$200.00 US for students if registration is received on or before 1 October 1997. For registrations received after that date, the fees are \$425.00 US for participants and \$250.00 US for students.

## Tenth International Conference on Numerical Methods for Thermal Problems

21–25 July 1997, University of Wales Swansea, Swansea, U.K.

### OBJECTIVES

This conference will be the tenth in the series *Numerical Methods in Thermal Problems*. The first was held in Swansea in 1979 and they have been held biennially since then with each alternate conference returning to Swansea. The continuing objective is to provide 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:

- fundamentals
  - conduction, natural and forced convection,
  - radiation heat transfer
  - combustion
  - phase change
  - thermal-structural interactions
- computer implementations
  - computational algorithms
  - adaptive remeshing techniques
  - innovations in pre-and post-stressing
- applications
  - casting, welding, forging and other metal forming processes
  - processing of composites, ceramics, fibres, plastics and food products

It is expected that most papers will report on recent advances in both traditional and innovative computational techniques. However, papers involving the application of standard numerical models to industrial applications are also strongly encouraged. Papers dealing with the comparison of standard numerical models with experimental data are also welcome.

The proceedings will be available at the conference and will provide an overview of recent and projected

studies taking place in research centres and industrial organisations throughout the world. Extended versions of the best papers will be considered for publication in the journals.

- *International Journal for Numerical Methods in Engineering, Communications in Numerical Methods in Engineering* and
- *International Journal for Numerical Methods in Heat and Fluid Flow*.

### CALL FOR PAPERS

One page abstracts related to the above topics are invited by **17 January 1997**. Figures showing key results and references will also be helpful to the selection committee. Notification of acceptance will be sent by **31 January 1997** along with instructions for the preparation of the manuscript. Completed manuscripts must be received by **1 April 1997**, to be included in the proceedings.

To ensure that the presentations are of maximum benefit to the greatest possible number of participants, authors are urged to stress the general significance of their work, as well as discussing detailed aspects of the study.

Abstracts should be sent to:

*Professor R. W. Lewis  
Institute for Numerical Methods in Engineering  
University of Wales Swansea  
Singleton Park, Swansea, SA2 8PP, U.K.  
Fax: +44 1792 295705 Tel: +44 1792 295256  
Thermal.Conference@swansea.ac.uk*

The conference web site can be found at:

*<http://www.swan.ac.uk/civeng/thermal/>*

## Tenth International Conference on Numerical Methods for Laminar and Turbulent Flow

28 July–1 August 1997, University of Wales Swansea, Swansea, UK

### OBJECTIVES

This conference will be the tenth in the series *Numerical Methods in Laminar and Turbulent Flow*. The first was held in Swansea in 1979 and they have been held biennially since then with each alternate conference returning to Swansea. The continuing objective is to provide a forum for the presentation and discussion of recent advances in the development and application of numerical methods to the solution of laminar and turbulent flow problems. Some key areas include:

- external and internal flows
- Navier-Stokes solution algorithms
- turbomachinery
- separation, circulation
- vortex-dominated flows
- turbulence models
- transonic and hypersonic flows
- natural and forced convection
- coupled solid/fluid interaction
- multidisciplinary applications
- non-Newtonian flow
- free-surface flows
- offshore and river hydrodynamics
- meteorology
- acceleration techniques
- iterative solvers
- grid generation and mesh adaptation

Equal emphasis is placed on papers dealing with recent advances in both traditional and innovative computational techniques, and those involving the application of standard numerical models to industrial applications. Papers dealing with the comparison of standard numerical models with experimental data are also welcome.

The proceedings will be available at the conference

and will provide an overview of recent and projected studies taking place in research centres and industrial organisations throughout the world. Extended versions of the best papers will be considered for publication in the journals.

- *International Journal for Numerical Methods in Fluids* and
- *International Journal for Numerical Methods in Heat and Fluid Flow*.

### CALL FOR PAPERS

One page abstracts related to the above topic are invited by **17 January 1997**. Figures showing key results and references will also be helpful to the selection committee. Notification of acceptance will be sent by **31 January 1997** along with instructions for the preparation of the manuscript. Completed manuscripts must be received by **1 April 1997**, to be included in the proceedings.

To ensure that the presentations are of maximum benefit to the greatest possible number of participants, authors are urged to stress the general significance of their work, as well as discussing detailed aspects of the study.

Abstracts should be sent to:

*Professor C. Taylor,  
Institute for Numerical Methods in Engineering  
University of Wales Swansea  
Singleton Park, Swansea, SA2 8PP, U.K.  
Fax: +44 1792 295705 Tel: +44 1792 295256  
Flow.Conference@swansea.ac.uk*

The conference web site can be found at:

*<http://www.swan.ac.uk/civeng/flow/>*