

## ANNOUNCEMENTS

### Fifth International Conference on NUMERICAL METHODS IN THERMAL PROBLEMS Montreal, Quebec, Canada, 29 June-3 July 1987

#### *Organizing Committee*

J. H. CHIN, Lockheed Missiles and Space Co., Sunnyvale, U.S.A.  
L. GOODRICH, National Research Council, Ottawa, Canada  
W. G. HABASHI, Concordia University and Pratt & Whitney Canada, Montreal, Canada  
L. IMRE, Technical University, Budapest, Hungary  
S. KOTAKE, University of Tokyo, Japan  
R. W. LEWIS, University of Wales, Swansea, U.K.  
K. MORGAN, University of Wales, Swansea, U.K.  
B. A. SCHREFLER, University of Padova, Italy

#### *Objectives*

This conference will be the fifth in the series entitled 'Numerical Methods for Thermal Problems'. The continuing objective of this series 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.

The organizing committee will welcome the submission of papers describing recent work within this general area.

It is expected that most submitted papers will report on recently developed computational techniques, in particular finite difference and finite

element methods. However, papers dealing with the comparison of standard numerical models with experimental data are also welcome. Papers involving industrial applications are also strongly encouraged as in the previous conferences.

#### *Call for Papers*

Abstracts of approximately 300 words offering papers in the above or related fields are invited *immediately* or at the latest by *1 November 1986*. Notification of acceptance will be forwarded within one month of receipt of the abstract and at the latest by *1 December 1986*, at which stage the recommended format for the preparation of manuscripts and associated material will be sent to the prospective authors. Since the conference proceedings will be presented to the delegates at the conference, the completed manuscripts will be required by *1 April 1987*.

#### *Abstracts*

The 300 word abstracts should be sent to:

PROFESSOR R. W. LEWIS  
Department of Civil Engineering  
University College of Swansea  
Singleton Park  
SWANSEA SA2 8PP  
U.K.

### Fifth International Conference on NUMERICAL METHODS IN LAMINAR AND TURBULENT FLOW Montreal, Quebec, Canada, 6-10 July 1987

#### *Organizing Committee*

C. TAYLOR, University of Swansea, Swansea, U.K.  
W. G. HABASHI, Concordia University, and Pratt & Whitney Canada, Montreal, Canada  
M. M. HAFEZ, University of California, Davis, U.S.A.  
B. A. LAUNDER, U.M.I.S.T., Manchester, U.K.

#### *Objectives*

The conference is the fifth in the continuing series on 'Numerical Methods in Laminar and Turbulent Flow'. The most recent, held in Swansea, U.K. in 1985, generated considerable interest and the resulting proceedings, containing over 180 papers, have been distributed internationally by Pineridge

Press. Indeed, since the proceedings are available at the conference, it is a valuable up-to-date research reference.

The continuing objective of this conference series 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 fluid flow problems. The broad spectrum of research topics under the subject heading 'Laminar and Turbulent Flow' will be tentatively integrated within the following main subject areas:

#### THEORY

Turbulence Models  
Bifurcation Problems in Fluids  
Separation, Laminar and Turbulent

#### METHODS

Navier-Stokes Algorithms  
Vortex Dominated Flows  
Viscous-Inviscid Interaction  
Grid Generation  
Convergence Acceleration Techniques  
Error Estimates

#### APPLICATIONS

Low Speed Aerodynamics  
Hyper Sonic Aerodynamics  
Non-Newtonian Flows  
Forced Convection  
Turbomachinery  
Meteorology  
Industrial Applications

It is expected that most submitted papers will report on recently developed computational techniques, in particular finite differences and finite element methods. However, papers dealing with the comparison of standard numerical models with experimental data are also welcome. Papers on industrial application are, as in the previous conferences, strongly encouraged.

#### Call for Papers

Abstracts of approximately 300 words offering papers in the above or related fields are invited *immediately* or at the latest by *1 November 1986*. Notification of acceptance will be forwarded within one month of receipt of the abstract and at the latest by *1 December 1986*, at which stage the recommended format for the preparation of manuscripts and associated material will be sent to the prospective authors. Since the conference proceedings will be presented to the delegates at the conference, the completed manuscripts will be required by *1 April 1987*.

#### Abstracts

The 300 word abstract should be sent to:  
DR. C. TAYLOR  
Department of Civil Engineering  
University College of Swansea  
Singleton Park  
SWANSEA, SA2 8PP  
U.K.

### First announcement and Call for Papers

## ADVANCES IN NUMERICAL METHODS IN ENGINEERING: THEORY & APPLICATIONS [NUMETA 87]

Swansea, U.K., 6-10 July 1987

The second conference in the NUMETA series will be held at the University College of Swansea, U.K., 6-10 July 1987. The objective of the NUMETA series is to cover a wide spectrum of 'numerical engineering' with particular emphasis being placed on the linking of new and recent advances in theory and applications. Abstracts of 500 words of proposed contributions are invited on the following topics.

#### TRANSIENT AND DYNAMIC ANALYSIS: THEORY AND APPLICATIONS

Novel solution techniques for transient dynamic problems.  
Soil/structure, fluid/structure and soil/fluid interaction.  
Transient conduction, convection and diffusion including multiphase flow.

High speed viscous and inviscid flow.  
Adaptive and moving mesh methods.

#### NUMERICAL TECHNIQUES FOR ENGINEERING ANALYSIS AND DESIGN

Numerical models for computer aided analysis  
and design.  
Optimization and interactive design systems.  
Analysis and design of structures subject to  
seismic, blast and impact loading.  
Case histories of numerical applications.

#### CONSTITUTIVE EQUATIONS FOR ENGINEERING MATERIALS

Theoretical aspects.  
Experimental verification and determination of  
constitutive parameters.  
Evaluation and comparison of constitutive  
equations.  
Applications to the problems of monotonic,

cyclic, transient and dynamic loading.

#### DEVELOPMENTS IN ENGINEERING SOFTWARE

Reliability, validation and quality assurance.  
Super computers and array processors.  
Pre- and post-processing techniques.  
Innovative graphics and interactive software.  
Accuracies and errors in approximation  
processes.

The closing date for abstracts is the end of  
December 1986. For further information, contact:

**J. Middleton** or **G. N. Pande**  
Department of Civil Engineering  
University College of Swansea  
Swansea SA2 8PP  
U.K.

Tel. [0792] 295514 or 295517

## NOTICE

### INTERNATIONAL SYMPOSIUM ON NATURAL CIRCULATION Boston, U.S.A., 13–18 December 1987

Please note that the date and venue have changed from those originally given in Volume 6, No. 10, p. 765 to those given above.