

ANNOUNCEMENTS

INTERNATIONAL CONFERENCE ON NUMERICAL METHODS IN LAMINAR AND TURBULENT FLOW

The University of Washington, Seattle, U.S.A.
8-11 August 1983

Objectives

The objectives of this conference are similar to those of the first held in Swansea, 1978, and the second, held at Venice, 1981. Again the main objective is to consolidate the recent advances in the application of numerical techniques, particularly finite difference and finite element methods, to solve laminar and turbulent flow problems. Both techniques have received considerable attention in recent years and their application and development is continually expanding. It is hoped that the conference will provide a forum for numerical analysts to present new numerical methods and applications and experimentalists to present a comparison between measured quantities and calculated values using standard numerical techniques. The subject matter should be of interest to both researchers and industry.

Provisional session headings

Laminar Flow

Lubrication
Turbulent Flow
Boundary Layers
Flow with Separation
Estuary and Coastline Hydrodynamics
Flow in Rivers and Channels
Turbo Machinery
Meteorology
Reactor Technology
Free and Forced Convection
Coupled Conduction and Convection
Turbulent Heat Transfer
Explosions
Scientific and Industrial Applications

Requests for further information should be addressed to

Dr. C. TAYLOR,
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University College of Swansea,
Singleton Park,
SWANSEA SA2 8PP, U.K.

FIFTH INTERNATIONAL SYMPOSIUM ON FINITE ELEMENT METHODS IN FLOW PROBLEMS

sponsored by TICOM and held at The University of Texas at Austin

23-26 January 1984

Over the last decade, a series of very successful international symposia has been held on the application of finite element methods to wide varieties of flow problems. In 1984, the fifth such symposium will be held at The University of Texas at Austin, during the period 23-26 January. The objective of the conference is to bring together researchers working in the theory and application of finite element techniques to the analysis of flow problems. The subject areas include theoretical analyses, new methodologies,

Navier-Stokes applications, compressible flows, transport phenomena, geological flow problems, algorithms and computer implementation, non-Newtonian flows and other related areas. The four-day conference program will comprise invited expository lectures, invited special lectures and contributed papers.

Abstracts of approximately 500 words should be forwarded prior to the abstract deadline date: 1 May 1983. All abstracts should be sent to the following address: Finite Element Flow Confer-

ence, Continuing Engineering Studies, ECJ 2.102, The University of Texas at Austin, Austin, Texas 78712, U.S.A.

The deadline for accepted papers is 1 September 1983. Short summary papers will be published in a conference volume and selected papers will be published in the post-conference

volume. The conference will be held at the Joe C. Thompson Conference Center at The University of Texas. The organizers of the meeting are Professors G. F. Carey of TICOM, R. H. Gallagher of The University of Arizona, J. T. Oden of TICOM and O. C. Zienkiewicz, The University of Wales.

INTERNATIONAL CONFERENCE ON NUMERICAL METHODS IN THERMAL PROBLEMS

The University of Washington, Seattle, U.S.A.
2-5 August 1983

Objectives

The objectives of this conference are to consolidate the advances made in the numerical modelling of thermal problems which were presented at Swansea in 1979 and at Venice in 1981. The use of numerical techniques, such as the finite element and finite difference methods, is essential for solving problems of extreme complexity or difficult mathematical representations, which can occur in a wide range of disciplines.

It is expected that this conference will continue the unifying theme of the previous conferences in bringing together engineers and scientists to discuss thermal problems from a diverse spectrum of disciplines and ultimately produce a text on the latest 'state of the art'. Keynote speakers will present lectures on the diverse nature of the problems and the similarities of the solution techniques used would be emphasized.

A provisional list of possible areas of interest is as follows:

Heat Conduction
Phase Change

Heat and Mass Transfer in Porous Bodies
Geothermal Reservoir Simulation
Thermal and Drying Stresses
Industrial and Scientific Applications
Solar Energy
Turbulent Heat Transfer
Fire and Combustion Simulation
Coupled Conduction and Convection
Mathematical and Computational Techniques
Free and Forced Convection
Nuclear Waste Disposal

Correspondence

Requests for further information should be addressed to

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University College of Swansea
Singleton Park
SWANSEA SA2 8PP
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MAFELAP 1984

Conference on

THE MATHEMATICS OF FINITE ELEMENTS AND APPLICATIONS

Brunel University, 1-4 May 1984

Following the four previous Brunel conferences on The Mathematics of Finite Elements and Applications, a fifth residential conference with the same title will be run at Brunel University at the beginning of May 1984. The aim

will be to bring together again workers from different disciplines whose common interest is finite element methods. The programme will consist of invited lectures, contributed papers and poster sessions.

Topics

The Mathematical Theory of Finite Elements
Engineering and Scientific Applications of Finite Elements

Computational Techniques for the Implementation of Finite Element Methods

Boundary Element Methods and Their Application

The Finite Element/Computer Aided Geometric Design Interface.

Call for papers

A limited number of contributed papers and papers for poster sessions will be accepted for the conference. Persons wishing to read a contributed paper or to have a paper in a poster

session should submit abstracts of not more than two pages in length by the 31 October 1983, indicating the mode of presentation that they would prefer.

Details

Persons wishing further details or submitting abstracts should write to:

The Secretary
The Institute of Computational Mathematics
Brunel University
Uxbridge, Middlesex, UB8 3PH,
United Kingdom.

**CTAC-83
COMPUTATIONAL TECHNIQUES AND APPLICATIONS
CONFERENCE**

The University of Sydney, Sydney, Australia

28–31 August 1983

Preamble:

This conference aims to provide an interactive forum for mathematicians, engineers and scientists interested in the three aspects of computation: analysis, techniques and applications.

Computational techniques stressed will include the finite difference, finite element, boundary element and spectral methods. Applications can be from any area but we anticipate such physical phenomena as fluid flow, heat transfer, solid mechanics, geomechanics and chemical kinetics will be well represented.

Keynote speakers will include Professor A. R. Mitchell, Dundee University, Professor M. Holt, University of California, Dr. C. A. Brebbia, Southampton University and Dr. R. W. Davis, National Bureau of Standards. Contributed papers on specific research topics and the keynote lectures will be included in the conference Proceedings to be published by North-Holland.

Call for papers:

Abstracts of not more than 500 words are invited in all three areas of computation: analysis, techniques and applications. Abstracts should reach Australia by 1 April 1983. The decision concerning acceptance for presentation of the paper will be communicated to authors by 1 May 1983 and final manuscripts will be required by 1 August 1983, for inclusion in the conference proceedings.

Abstracts and requests for further information should be sent to:

Dr. C. A. J. Fletcher,
CTAC-83,
Department of Mechanical Engineering,
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