

## ANNOUNCEMENTS

### CALL FOR PAPERS

### **BAIL II**

The Second International Conference on  
**BOUNDARY AND INTERIOR LAYERS—  
COMPUTATIONAL AND ASYMPTOTIC METHODS**  
16-18 June 1982 in Dublin, Ireland  
under the auspices of the Numerical Analysis Group  
and cosponsored by the  
American Institute of Aeronautics and Astronautics  
American Meteorological Society  
Institute for Numerical Computation and Analysis  
Irish Mathematical Society

Contributed papers are solicited from biologists, chemists, engineers, mathematicians, physicists and other scientists on computational or asymptotic methods for problems involving boundary or interior layers.

Relevant topics include: advection-diffusion problems; artificial viscosity methods; asymptotic expansions; boundary layers; chemical flow reactors at small and large Peclet number; continuation methods; convection-dominated flows; degeneration of the differential equation type; exponential fitting; filtration problems; flows in porous media with small capillary pressure; fluid flows with large Reynolds number; free boundary problems; equations with large and small parameters; problems with large Lipschitz constants; multigrid methods; multiple scaling techniques; plasma flow with large Hartman number; reaction-diffusion problems; resonance; semiconductor modelling; shocks; short time asymptotics; singular perturbations; stiff

highly oscillatory problems; stiff initial value problems; transition layers; turning point problems; two-timing and upwinding.

Sessions will include problems arising in the aerospace industry, chemical engineering, mathematical biology, meteorology, nuclear engineering, petroleum reservoir modelling and semiconductor device modelling.

#### *Contributed Papers*

The deadline for the receipt of abstracts and preliminary versions of 20 minute contributed papers is 19 March 1982.

All correspondence and details for abstracts concerning the Conference should be addressed to:

BAIL Conference,  
39 Trinity College,  
Dublin 2, Ireland.

## COMPEL

### THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING

#### *Aims and scope*

COMPEL exists for the discussion and dissemination of numerical and analytical methods in all areas of electrical and electronic engineering. The main emphasis of the papers is on the methods.

Applications of methods to particular engineering problems may be given to illustrate their use in practice.

#### *Publication of papers*

Authors wishing to have papers published in COMPEL should send them to COMPEL, Boole Press Limited, P.O. Box 5, 51 Sandycove Road, Dun Laoghaire, Co. Dublin, Ireland.

Submission of three copies will expedite the assessment of papers. Two of these will be sent for assessment to the referees; the names and addresses of the authors may be omitted from these two copies if desired.

### INTERNATIONAL SOCIETY FOR COMPUTER METHODS IN ENGINEERING

I.S.C.M.E. was founded with the goal to accelerate the international exchange of ideas and scientific knowledge in the field of Computational Methods in Engineering.

One of the aims of the Society is to provide opportunities for contact between members through national and international conferences, seminars, training courses and workshops. The Society also aims to create a channel of communication between academic researchers and industrial users.

I.S.C.M.E. embraces the traditional fields of Engineering and all areas of Applied Mechanics and Mathematical Modelling, equal emphasis being placed on the theory and performance of Computational Methods in the different disciplines.

#### *Bulletin*

An added impetus to the Society is the I.S.C.M.E. bulletin which has the specific purpose of fostering contacts between different

groups of people with a common interest and acting as a means of communication between members.

It provides a possible forum for practical users with the interchange of computer software, programme information, etc. and helps to close the gap between 'model-makers' and 'model-users'.

The bulletin includes information submitted by Society members on relevant meetings and short courses as well as publicizing Conferences and Society activities. It is at present incorporated within the Journal *Advances in Engineering Software*. *Annual subscription to this Journal is included in the membership fee.*

For further details contact:

I.S.C.M.E.  
125 High Street  
Southampton SO1 0AA  
England  
Tel: Southampton 21397