

ANNOUNCEMENTS

4TH INTERNATIONAL CONFERENCE ON NUMERICAL METHODS IN GEOMECHANICS

Following the three previous similar international meetings (Vicksburg 1972; Blacksburg 1976; Aachen 1979), the 4th International Conference on Numerical Methods in Geomechanics will take place from 31 May–4 June 1982 in Edmonton, Alberta, Canada. The conference is sponsored by the International Committee for

Numerical Methods in Geomechanics and by the Canadian Geotechnical Society. Enquiries to be directed to the conference chairman: Professor Z. Eisenstein, Department of Civil Engineering, The University of Alberta, Edmonton, Alberta, Canada, T6G 2G7.

INTERNATIONAL CONFERENCE ON NUMERICAL METHODS FOR COUPLED PROBLEMS

University College, Swansea, 7-11 September 1981

Objectives

Numerical techniques are extensively applied in the solution of problems which involve coupling:

Interacting Physical Systems

(examples: fluid–structure interaction, multi-phase flow, soil–structure interaction, contact between solids, soil liquefaction, electromagnetic fields, thermo-mechanical coupling, biomechanics, elasto-hydrodynamic lubrication, magnetohydrodynamics, heat and mass transfer, phenomenological relations and moisture stress development.)

Discretization/Solution Techniques

(examples: implicit–explicit and staggered time stepping schemes, linking of finite elements to—boundary integrals, special singularity elements, and infinite elements, radiation boundary conditions.)

The conference will be concerned with the application of numerical methods to coupled field problems, and to the use of coupled numerical techniques, with the main aim of establish-

ing the state-of-the-art of such methods. Analysis of industrial and technological applications will be especially welcomed. The proceedings will be published prior to the conference, and selected papers will be published later to commemorate the event.

Invited key note speakers include:

J. H. Argyris, R. W. Clough, J. Douglas, R. H. Gallagher, T. J. R. Hughes, A. R. Mitchell, J. T. Oden, K. C. Park, I. M. Smith, R. L. Taylor, C. W. Trowbridge, G. B. Warburton

Call for papers

Abstracts are invited on the topics outlined above. Other papers of merit in related topics will also be considered for inclusion. The abstracts should be approximately 300 words in length and submitted before 31 January 1981. Final papers should be submitted by 30 April 1981.

For further details contact

Dr. P. Bettess,
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An Announcement for TWO Conferences

7-10 July 1981

International Conference on
NUMERICAL METHODS
IN
THERMAL PROBLEMS

13-16 July 1981

International Conference on
NUMERICAL METHODS
IN
LAMINAR & TURBULENT FLOW

Both to be held in Venice, Italy

Following on from the first conferences held in Swansea, these second conferences will be held with the view of consolidating the recent advances in the application of numerical techniques, particularly finite difference and finite element methods, to the solution of thermal and fluids problems.

Authors are requested to submit papers to the appropriate conference using as a general guide Thermal Problems—emphasis on Heat Transfer, Laminar and Turbulent Flow—Mass Transfer.

Call for papers

Abstracts are invited on the topics outlined previously. Other papers of merit in related

topics will also be considered for inclusion. The abstracts should be approximately 300 words in length and submitted before 1 September 1980. Final papers will be required by 1 February 1981 for inclusion in the appropriate Conference Proceedings.

All abstracts for both conferences should be sent to:

DR. C. TAYLOR
Department of Civil Engineering
University College
Swansea SA2 8PP
U.K.

4th International Conference on

FINITE ELEMENTS IN WATER RESOURCES

21-25 June 1982, University of Hannover, Fed. Rep. of Germany

Scope of conference:

The first, second and third international conferences on Finite Elements in Water Resources were held at Princeton University, U.S.A., in 1976, at Imperial College, London, U.K., in 1978, and at the University of Mississippi, Oxford, U.S.A., in 1980.

The principal objectives of the 4th conference at Hannover are to provide an exchange of experience in practical applications, and to establish a forum for discussions about accuracy, economy, and the improvement and limitations of the finite element method. Other related methods of discretization are also within the scope of the conference. New developments in numerical and computational techniques, basic mathematical formulations, and soft- and hard-

ware aspects are also considered to be important topics for an exchange of ideas between theoretically and practically oriented researchers.

Call for papers:

Abstracts are invited on the topics of the conference. The abstracts should not exceed 300 words in length. They should be submitted by 1 September 1981.

For further details contact:

Prof. Holz, Meissner, Zielke
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Conference Finite Elements
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