

ANNOUNCEMENTS

SYMPOSIUM ON ADVANCES AND TRENDS IN COMPUTATIONAL STRUCTURAL MECHANICS AND FLUID DYNAMICS

Co-sponsored by George Washington University and NASA Langley Research Center

Sheraton National Hotel, Washington, DC, 17-19 October 1988

The three-day symposium will be the first to bring together leading experts in the areas of computational structural mechanics, computational fluid dynamics and computer technology. In addition to the regular sessions, a panel discussion on Future Directions and Potential for Cross Fertilization, and a hardware/software exhibit are planned. Topics to be covered in the symposium include:

- technology forecast for supercomputers;
- parallel processing in fluid mechanics and structures calculations;
- applications of artificial intelligence to computational mechanics software;
- mechanistic base for constitutive relations;
- localization phenomena;
- stability and bifurcation problems;
- reacting and non-equilibrium thermodynamics;
- chaotic dynamics;
- advances in discretization techniques (finite elements, spectral methods and boundary elements);
- probabilistic methods;
- adaptive and hybrid methods;
- mesh and model generation techniques;
- flow visualization techniques;
- multilevel optimization techniques;
- compressible, incompressible, transonic and reacting flows.

A hard-bound volume of the proceedings will be published before the meeting.

Because of the limited space, to assure yourself a place at the symposium, early preregistration at the reduced rate of \$185 is highly recommended (registration includes proceedings, three lunches, banquet and reception). Make checks payable to George Washington University and mail before 31 August 1988 to:

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Mail Stop 269
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BETECH 89

BOUNDARY ELEMENT TECHNOLOGY

Windsor, Canada, 6-8 June 1989

OBJECTIVES

The boundary element method (BEM) has now come of age in engineering analysis, due to a wide range of applications in industry. In essence, boundary elements is a method of greatly simplifying engineering analysis, often with notable benefits in accuracy over existing techniques such as finite elements.