

## ANNOUNCEMENTS

### 9th INTERNATIONAL CONGRESS ON THE APPLICATION OF MATHEMATICS IN ENGINEERING

28 June-5 July 1981 in Weimar, German Democratic Republic

The *9th International Congress on the Application of Mathematics in Engineering (IX IKM)* will be held in Weimar, German Democratic Republic, 28 June-5 July 1981. The main emphasis is on the application of mathematics and computers in Structural Mechanics and Civil Engineering. The technical papers are being solicited from the following five themes:

- A. Mathematical methods in construction technics.
- B. Mathematical models and automated information systems for management in construction production.
- C. Mathematical models and methods in stochastics and optimizations.
- D. Numerical and computer methods.
- E. Computer supported projections and technological preparations.

As in all previous IKM, there will be more than 30 countries represented in the Congress. All prospective papers should contain an abstract of 300 words. The deadline for abstracts is 30 September 1980. Accepted papers will be published in the Congress Proceedings. All communications should be addressed to:

Prof. Dr. habil. H. Matzke,  
President of the IX. IKM,  
Karl-Marx-Platz 2,  
53 Weimar, DDR

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### STRUCTURAL MECHANICS IN REACTOR TECHNOLOGY SMIRT 6

17-21 August 1981, Palais des Congres Paris, France

#### *Topical scope*

The topical scope of the previous SMIRT Conferences will be maintained. The Conference will cover all aspects of engineering mechanics as applied to mechanical and structural components and the relevant systems in nuclear fission or fusion reactors.

That application can be understood in its widest sense, including the theoretical developments of mechanics wherever they are applicable to reactor technology, the discussion of load conditions, the behaviour of materials, interactions with fluid

mechanics, accident sequences or calculation procedures. The problems of structural mechanics analysis will thus be clarified in the general context of reactor design, reliability and safety. Rationalization of the reference loads can be undertaken on the basis of statistical and probabilistic considerations.

The papers may be theoretical or applied, or they can combine the two by pointing out areas in which the theoretical results can be applied and how actual behaviour correlates with the theory. One of the aims of the conference is to bring about a synthesis between different approaches.

The papers will be distributed among the following Divisions;

- Thermal and fluid/structure dynamics analysis.
- Analysis of reactor fuel and cladding materials.
- Structural analysis of reactor fuel elements and assemblies.
- Structural analysis of fast reactor core and coolant circuit structure
- Structural analysis of thermal reactor core and coolant circuit structures.
- Structural analysis of steel reactor pressure vessels.
- Structural engineering of prestressed reactor pressure vessels.
- Loading conditions and structural analysis of reactor containment.
- Seismic response analysis of nuclear power plant systems.
- Materials modelling and inelastic behaviour of materials and structures.
- Methods for structural analysis.
- Mechanical and thermal problems of future fusion reactor power plants.

*Information may be obtained from*

SMIRT—6 Organization Committee  
c/o SFEN—48, rue de la Procession  
F—75724 Paris, Cedex 15, France.

*Dates for authors*

- Last date for submitting 500-word Summaries of papers, 31 August 1980.
- Results of selection, December 1980.
- Last date for receipt of Compacts of the accepted papers, 14 February 1981.

*Post conference seminars*

11 Post SMIRT 6 Seminars will be held in Paris, France or ISPRA, Italy.