

ANNOUNCEMENT AND CALL FOR PAPERS

IUTAM SYMPOSIUM ON INELASTIC DEFORMATION OF COMPOSITE MATERIALS

Rensselaer Polytechnic Institute
Troy, New York

29 May–1 June 1990

SCIENTIFIC COMMITTEE

Prof. G. J. Dvorak (U.S.A.), Chairman, Prof. Z. Hashin (Israel), Prof. J. Backlund (Sweden), Prof. T. Hayashi (Japan), Prof. J. P. Boehler (France), Prof. T. Lehmann (F.R.G.), Dr R. N. Christensen (U.S.A.), Prof. A. J. M. Spencer (U.K.), Prof. D. C. Drucker (U.S.A.), Prof. V. V. Vasiliev (U.S.S.R.), Prof. S. S. Wang (U.S.A.)

MAIN TOPICS:

- (1) Modeling techniques for evaluation of overall physical properties of heterogeneous materials with complex microstructures.
- (2) Thermoplasticity and thermoviscoplasticity of heterogeneous solids. Effects of phase properties and phase interactions on overall response.
- (3) Mechanics of microscopic and macroscopic fracture processes in heterogeneous media. Cracks at interfaces. Evolution of progressive cracking and of stiffness changes under incremental thermomechanical loading.
- (4) Wave propagation and damping in inelastic and damaged heterogeneous media.
- (5) Experimental evaluation of theoretical models of overall behavior. Relations between measured phase properties and macroscopic response. Identification of experimental techniques for measurement of *in situ* phase properties in heterogeneous aggregates.

CALL FOR PAPERS AND PARTICIPATION

Participation in the Symposium is by invitation. Interested authors should send a summary of about 1000 words together with relevant references, by the end of September 1989. Manuscripts of lectures presented at the Symposium will be published in a special volume. Persons who wish to participate in the Symposium as speakers or attendees should contact at their earliest convenience:

Professor George J. Dvorak,
Civil Engineering Department,
4052 JEC,
Rensselaer Polytechnic Institute,
Troy,
NY 12180-3590,
U.S.A.

The Symposium is organized by the RPI Center for Composite Materials and Structures.