

INTERNATIONAL CONFERENCE ON FRACTURE OF CONCRETE AND ROCK

June 17-19, 1987

Wyndham Hotel Greenspoint, Houston, Texas

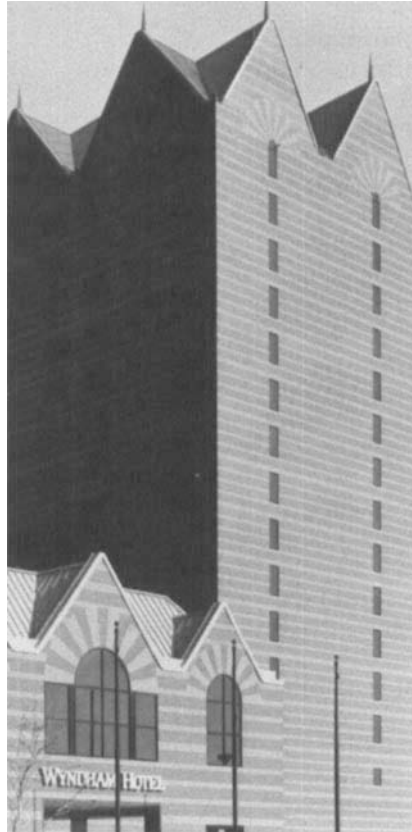
The International Conference on Fracture of Concrete and Rock will be held jointly with the 1987 SEM Spring Conference on Experimental Mechanics. The conference has been organized by the SEM Subdivision on Fracture of Concrete and Rock and the RILEM Committee 89-FMT Fracture Mechanics of Concrete: Test Methods, and with the cooperation of ACI Committee 446 Fracture Mechanics.

The conference co-chairmen are Professor S.P. Shah, Northwestern University, and Professor S.E. Swartz, Kansas State University, who have been assisted by Professor K. Chong, University of Wyoming.

The conference theme is 'Fracture Mechanics Applications to Cracking and Fracture of Concrete (plain or reinforced) and Rock Subjected to Uniaxial or Complex Stress States with Static- or Dynamic-Loading Events.' This theme was chosen in recognition of parallel efforts between the rock-mechanics community and researchers working in the application of fracture mechanics methods to the problem of cracking and fracture of concrete.

The Advisory Board consists of experts of international reknown in these technical areas and includes H. Abe, D.B. Barker, Z.P. Bazant, Z.T. Bieniawski, A.P. Boresi, L. Cedolin, K. Chong, L.S. Costin, C.H. Dowding, M. Elices, C. Fairhurst, F.E. Heuze, A. Hillerborg, H.K. Hilsdorf, A.R. Ingraffea, B.L. Karihaloo, A.S. Kobayashi, W. Koyanagi, V. Li, S. Mindess, F. Ouchterlony, H.W. Reinhardt, H.P. Rossmannith, V.E. Saouma, R.L. Sierakowski, S. Sture, M. Wecharatana, and Y. Huang.

The program will consist of over eighty invited and submitted papers, grouped by themes, into twelve sessions and a Poster Session. The session themes are: Dynamic Fracture Measurements; Fatigue Effects in Concrete



Fracture; Mode I Fracture Properties; Analytical Models for Rock Fracture; Fracture Process Zone; Applications to Concrete Design; Size Effects; Testing for Mixed-Mode Fracture Parameters; Dam Analysis; Crack Propagation; and Testing Methods for Mode I. Papers for these sessions have been received from nineteen countries.

Invited papers include: 'Energy Balance in Instrumented Impact Tests on Plain Concrete Beams,' Banthia, Mindess and Bentur; 'Fracture-Mechanics Analysis of Fatigue Rupture of Plain Concrete,' Zhang, Wu; 'Do Plain and Reinforced Concretes Have an R-Curve Behavior?,' Karihaloo; 'Numerical Simulation of Concrete Fracture Through

a Bi-Linear Softening Stress-Crack Opening Displacement Law,' Carpinteri, Colombo, Giuseppetti; 'Models of Dynamic and Quasi-Static Fluid-Driven Fracturing in Jointed Rocks,' Shaffer, Nilson, Heuze and Ingraffea; 'Fracture-Process Zone of a Concrete-Fracture Specimen,' Ou, Kobayashi, Hawkins; 'Anchor Bolts Analyzed With Fracture Mechanics,' Elfgren, Ohlsson, Gylltoft; 'Fracture Energy of Heterogeneous Materials and Similitude,' Bazant; 'Mixed-Mode Fracture Tests on Concrete,' Cornelissen, Reinhardt; 'Fracture Mechanics of Concrete Gravity Dams,' Saouma, Ayari, Biggs; 'Infrared Thermography of Fracture of Concrete and Rock,' Luong; 'Theoretical Analyses of Test Methods,' Hassanzadeh, Hillerborg.

The program will start Wednesday morning, June 17 and will finish at noon on Friday, June 19. Following the conference, on Friday afternoon, there will be individual and joint meetings of the following committees: SEM, Fracture of Concrete and Rock; RILEM 89-FMT Fracture Mechanics of Concrete: Test Methods; RILEM 90-FMA: Fracture Mechanics of Concrete: Applications; ACI 446, Fracture Mechanics.

Conference attendees will receive a Proceedings which will include keynote papers, invited papers, submitted papers and abstracts of poster papers. Following the conference a type-set volume will be prepared. Authors will be requested to submit corrected or updated versions of their papers in accordance with reviewers' comments for inclusion in this volume. The full papers presented in the Poster Session will also be included.

All those attending this conference are invited to attend the SEM Spring Conference. In the earlier part of the week are a number of sessions on fracture mechanics as well as related topics in experimental testing and data evaluation.