

## CONFERENCE REPORT

### IRISH MECHANICS GROUP CONFERENCE

A two-day conference, sponsored by the National Committee for Theoretical and Applied Mechanics and the Department of Mathematical Physics, U.C.C., on "Current Research in Mechanics" was held at U.C.C. on 25/26 July. Twenty-five Mechanicians and Applied Mathematicians from Ireland, the United States, the United Kingdom and Canada attended. The main speakers were Professor J.E. Fitzgerald, Georgia Tech. and Professor M.M. Carroll, Berkeley. The fourteen lectures, in order of presentation, were as follows:

"Recent Developments in Non-Linear Materials", Professor J.E. Fitzgerald, Georgia Tech.

"Stability in Thermoelasticity", Dr N.H. Scott, East Anglia.

"Edge-Function Methods: Completeness and Convergence", Dr J.J. Grannell, U.C.C.

"Dynamics of Buried Pipelines", Dr P. O'Leary, U.C.C., and Dr S.K. Datta, Boulder (presented by Dr O'Leary).

"Free Vibrations of Orthotropic Plates Using the Edge-Function Method", Dr R.P. Studdert and Dr M.J.A. O'Callaghan, U.C.C. (presented by Dr Studdert).

"On the Wiener-Hopf-Hilbert Method of Matrix Factorization", Dr A.D. Rawlins, Brunel.

"Criterion for Failure in Certain Composites", Dr M.H. Quinlan, U.C.C.

"Bivectors and Jayvectors", Professor M.A. Hayes, U.C.D.

"Some Spatial Decay Estimates in Continuum Dynamics", Professor J.N. Flavin, U.C.C.

"Developments in Rock Mechanics", Professor M.M. Carroll, Berkeley.

"The Edge-Function Method for Fracture Mechanics", Professor P.M. Quinlan, U.C.C.

"The Evolution of Resonant Oscillations", Professor M.P. Mortell, U.C.C. and Mr E.A. Cox, U.C.D. (presented by Professor Mortell).

"T-Matrices for Scattering from Discs", Professor M.F. McCarthy, U.C.C.

"Numerical Modelling of Hydraulic Fracture Propagation", Professor J. Curran, Toronto.

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