

INDEX

- Ashurst, W. T.** *See* Gibson, Ashurst & Kerstein
- Bergman, T. L. & Ungan, A.** A note on lateral heating in a double-diffusive system, 175–186
- Brachet, M. E., Meneguzzi, M., Politano, H. & Sulem, P. L.** The dynamics of freely decaying two-dimensional turbulence, 333–349
- Chen, S. B.** *See* Keh & Chen
- Cheung, T. K. & Street, R. L.** The turbulent layer in the water at an air–water interface, 133–151
- Churilov, S. M. & Shukhman, I. G.** Nonlinear stability of a stratified shear flow in the regime with an unsteady critical layer, 187–216
- Cowley, S. J.** *See* Page & Cowley
- Dritschel, D. G.** The repeated filamentation of two-dimensional vorticity interfaces, 511–547
- Etay, J., Mestel, A. J. & Moffatt, H. K.** Deflection of a stream of liquid metal by means of an alternating magnetic field, 309–331
- Evans, E. & Sackmann, E.** Translational and rotational drag coefficients for a disk moving in a liquid membrane associated with a rigid substrate, 553–561
- Ferziger, J. H.** *See* Finlay, Keller & Ferziger
- Finlay, W. H., Keller, J. B. & Ferziger, J. H.** Instability and transition in curved channel flow, 417–456
- Freedman, M. H.** A note on topology and magnetic energy in incompressible perfectly conducting fluids, 549–551
- Gibson, C. H., Ashurst, W. T. & Kerstein, A. R.** Mixing of strongly diffusive passive scalars like temperature by turbulence, 261–293
- Jansons, K. M. & Johnson, E. R.** Slow energy transfer between regions supporting topographic waves, 1–13
- Johnson, E. R.** *See* Jansons & Johnson
- Keh, H. J. & Chen, S. B.** Electrophoresis of a colloidal sphere parallel to a dielectric plane, 377–390
- Keller, J. B.** *See* Finlay, Keller & Ferziger
- Kerstein, A. R.** *See* Gibson, Ashurst & Kerstein
- Kim, J.** *See* Mansour, Kim & Moin
- Longuet-Higgins, M. S.** Limiting forms for capillary–gravity waves, 351–375
- Lundgren, T. S. & Mansour, N. N.** Oscillations of drops in zero gravity with weak viscous effects, 479–510
- Mansour, N. N., Kim, J. & Moin, P.** Reynolds-stress and dissipation-rate budgets in a turbulent channel flow, 15–44
- Mansour, N. N.** *See* Lundgren & Mansour
- Marchant, T. R. & Roberts, A. J.** A variational approach to the problem of deep-water waves forming a circular caustic, 581–597
- Meneguzzi, M.** *See* Brachet, Meneguzzi, Politano & Sulem
- Mestel, A. J.** *See* Etay, Mestel & Moffatt

- Moffatt, H. K.** *See* Etay, Mestel & Moffatt
- Moin, P.** *See* Mansour, Kim & Moin
- Nakabayashi, K. & Tsuchida, Y.** Spectral study of the laminar-turbulent transition in spherical Couette flow, 101-132
- Oğuz, H. N. & Sadhal, S. S.** Effects of soluble and insoluble surfactants on the motion of drops, 563-579
- Page, M. A. & Cowley, S. J.** On the rotating-fluid flow near the rear stagnation point of a circular cylinder, 79-99
- Petersen, R. A. & Samet, M. M.** On the preferred mode of jet instability, 153-173
- Politano, H.** *See* Brachet, Meneguzzi, Politano & Sulem
- Pugh, J. D. & Saffman, P. G.** Two-dimensional superharmonic stability of finite-amplitude waves in plane Poiseuille flow, 295-307
- Roberts, A. J.** *See* Marchant & Roberts
- Sackmann, E.** *See* Evans & Sackmann
- Sadhal, S. S.** *See* Oğuz & Sadhal
- Saffman, P. G.** *See* Pugh & Saffman
- Samet, M. M.** *See* Petersen & Samet
- Savage, S. B.** Streaming motions in a bed of vibrationally fluidized dry granular material, 457-478
- Shukhman, I. G.** *See* Churilov & Shukhman
- Smeed, D. A.** Baroclinic instability of three-layer flows. Part 1. Linear stability, 217-231
- Smeed, D. A.** Baroclinic instability of three-layer flows. Part 2. Experiments with eddies, 233-259
- Smith, M. K.** The nonlinear stability of dynamic thermocapillary liquid layers, 391-415
- Smith, P. A. & Stansby, P. K.** Impulsively started flow around a circular cylinder by the vortex method, 45-77
- Stansby, P. K.** *See* Smith & Stansby
- Street, R. L.** *See* Cheung & Street
- Sulem, P. L.** *See* Brachet, Meneguzzi, Politano & Sulem
- Tsuchida, Y.** *See* Nakabayashi & Tsuchida
- Ungan, A.** *See* Bergman & Ungan



International Association
for Hydraulic Research
XXIII Congress
August 21 – 25, 1989 – Ottawa, Canada

“HYDRAULICS AND THE ENVIRONMENT”

The Organizing Committee invites all experts in hydraulics research to meet in Ottawa in 1989, the site of the XXIII Congress. The technical program of the congress comprises four subthemes, each with four topics:

A. TURBULENCE IN HYDRAULICS

- (1) Physical Mechanisms of Turbulence
- (2) Experimental Studies and Empirical Relations
- (3) Mathematical Modelling of Turbulence
- (4) Measurement Techniques for Turbulent Flows

B. FLUVIAL HYDRAULICS

- (1) The Cross Section and the Plan Shape of Self-forming Alluvial Channels
- (2) Physical Responses of Rivers to Human Activities
- (3) Mechanics of Flow and Sediment Transport on Flood Plains
- (4) Erosion and Transport of Cohesive Materials

C. MARITIME HYDRAULICS

- (1) Sea Level Trends and Consequent Impacts on Shorelines
- (2) Hydrodynamic Forces on Maritime Structures
- (3) Measurement, Analysis and Simulation of Three-dimensional Sea States
- (4) Mathematical Modelling of Shore Evolution

D. ENVIRONMENTAL HYDRAULICS

- (1) Diffusion and Dispersion of Pollutants and Heat
- (2) Modelling Water Quality in Rivers
- (3) Mass Transfer of Air-Water Interface in Lakes and Rivers
- (4) Environmental Impact of Large-scale River Diversions

SEMINARS

In addition to the technical program, there will be five seminars:

- (1) Ice Jams and Flooding: Analysis and Control Methods
- (2) Education in Computational Hydraulics
- (3) Assessment of Risks and Uncertainties in the Design of Hydraulic Structures
- (4) Armouring and Grain Sorting: Influence on the Basic Concept of Bed Load Phenomenon
- (5) Management of Hydraulics Research

Persons interested in presenting their work at the congress are asked to submit a manuscript **before December 31, 1988.**

Instructions for preparing manuscripts and (or) further information can be obtained from:

Ken Charbonneau, Conference Services
National Research Council Canada
Ottawa, Ont., Canada K1A 0R6
Telephone: (613) 993-9009
Telex: 053-3145
Facsimile: (613) 952-7928