

PROCEEDINGS OF THE SOCIETY

The annual meeting of the Society was held in Adelaide, August 18—22, 1958.

The retiring President of the Society delivered the Presidential address: *A mathematician looks at physical theory*, to a joint meeting of the Society and Section A of the Australian and New Zealand Association for the Advancement of Science.

Invited Lectures: G. de'B. Robinson (University of Toronto): *The Canadian Mathematical Congress — its birth and growth*. E. S. Barnes: *Positive quadratic forms*. A. F. Pillow: *Asymptotic methods in viscous fluid flow and heat convection*. T. G. Room: *Spinors and orthogonal geometry*. C. S. Davis: *Delone's method in the geometry of numbers*. E. R. Love: *Generalized functions related to Schwartz's distributions*.

Papers: H. A. Buchdahl: *Gauge-invariance and phase-invariance in spinor analysis*. H. O. Lancaster: *The structure of bivariate distributions*. G. R. Morris: *An existence theorem for $y' = f(x, y)$* . L. C. Woods: *On the theory of a cascade of stalled aerofoils*. E. J. Hannan: *Spectral theory of abelian groups of unitary operators and of stochastic processes*. G. E. Wall: *Number of sub-groups of a p -group*. R. Armsrong: *A class of finite soluble groups*. H. C. Levey: *Heat transfer in slip flow*. W. W. Wood: *Three-dimensional boundary layers*. W. A. O'N. Waugh: *Some systems that generate conditional probabilities*. J. Gani: *The time-dependent solution for a storage model with Poisson input*. F. A. Behrend: *Sets with a binary relation*. S. J. Prokhovnik: *An alternative formulation for special relativity*. F. E. Binet: *Remarks on two classes of simple purebirth processes*. W. Greve: *Almost periodic groups and their representations as automorphism groups of the universal measure algebra*. M. D. R. Smart: *Boundedness and convergence*. R. B. Dingle: *Mathieu functions and their characteristic values*. R. C. Thorne: *Asymptotic solutions of differential equations with irregular singularities*. G. W. Rogerson: *Analysis of factorial experiments on an electric computer*. J. E. Moyal: *New results in point processes*. G. M. Kelly: *Critical points of functions defined on manifolds*. F. V. Atkinson: *Asymptotic integration of $\ddot{x} + F(t, x) = 0$* . B. C. Rennie: *The differential equation $y' = y$* . H. S. Konijn: *Models used in statistical studies of relations between uncontrolled variables*.

(by title) J. B. Miller: *Hilbert spaces of sequence functions extending L^2* . R. T. Leslie and F. E. Binet: *Recurrent events generated by clustering of the events of a primary stochastic process*. P. E. Wynter: *Theory of circular wings*.

The next meeting of the Society will be held in Perth (Western Australia) from 20 August to 24 August, 1959.