

LYLE MEDAL 1979

E. J. Hannan

Citation

The Thomas Ranken Lyle Medal was established in 1932 to honour Sir Thomas Lyle, FRS, professor of natural philosophy in the University of Melbourne, 1890–1915. The award is for distinguished research in mathematics or physics.

The medal for 1979 has been awarded to Edward James Hannan, FAA, professor of statistics in the Research School of Social Sciences, Australian National University.

Professor Hannan has made many fundamental contributions to the theory of statistical inference, particularly in connection with stationary random processes. Such processes arise in many contexts; for example, in the study of ocean waves and other geophysical time series, in radiophysics, and in econometrics. Hannan has studied the spectral theory of such processes and its use in signal detection, particularly signal detection using arrays of receivers. His researches are based on a deep mastery of functional analysis and group theory.