

## JOINT COLLOQUIA

4 September 1958

## Regression, Correlation and Structure

by P.A.P. Moran

Dr. Moran of the Research School of Social Sciences, Australian National University, Canberra, presented a paper under the above heading.

He demonstrated the logic of statistical analysis as applied in cases where two or more measurements were made on each individual member of a sample. After distinguishing between the use of statistical methods in description and in inference, Dr. Moran discussed the problem of "identification". He described four basic models:

- (a) Regression (single variate);
- (b) Correlation (two variates);
- (c) Error in variable (two observed variates);
- (d) Berkson's model (one observed variate);

and discussed the inferences drawn from these models.

Dr. Moran's paper will be published in the next issue of the Australian Meteorological Magazine.

2 October 1958

## Recent Investigations in Fire Weather

by G.U. Wilson

Mr. Wilson, of the Bureau of Meteorology, reviewed the results of investigations into the relationship between weather, fuel inflammability and fire behaviour in forests and grasslands. He said that forest fires in Australia burn an average area of 6.5 million acres annually, causing damage of more than £2 million each year.

Wallace in Western Australia and workers in Tasmania pioneered Australian fire weather research as early as the summer of 1934/35. Work in this field was intensified by the Bureau of Meteorology after the inauguration of the Fire Weather Service in 1955.