

JOINT COLLOQUIA

25th November, 1954.

Some Recent Results in Convection Theory
by C.H.B. Priestley

To formalize the close connection between turbulent and convective phenomena Dr. Priestley put forward the model of the open parcel, in which a moving parcel of air is subject to continuous mixing of heat and momentum with its environment. He showed that the device is of considerable power and indicated the results of some of its applications to problems in convection and turbulent heat transfer.

The substance of the talk is contained in an article by Dr. Priestley in *Met. Mag.* (London) 1954 Vol. 83 No. 982 P.107.

24th March, 1955.

Methods of Evaluation and Preliminary Results of
Radiation Network Measurements
by F.H.W. Albrecht

Dr. Albrecht discussed a method of determination of the constants for radiation instruments from their own series of observations. Using this method, frequent calibrations of the network instruments were unnecessary.

Methods of determination of turbidity and water vapour in the atmosphere were discussed and sensitive instruments for such methods described.

Examples were given of the results of observations with particular reference to the Australian network.