

## JOINT COLLOQUIUM

2 August 1962

## THE PROBLEM OF TEMPERATURE TRENDS IN ANTARCTICA

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Dr. Radok, Meteorology Department, University of Melbourne, discussed the problem of temperature trends in Antarctica. Owing to the shortness of meteorological records the evidence for such trends must be sought mainly in the ice temperature distribution. The theory of heat conduction suggests that the present surface mean air temperature is realized at a depth of 10 to 13 metres, and that conclusions can be drawn from the temperature profile lower down concerning any surface temperature changes which may have occurred in time. The motion of the ice greatly complicates the problem, and an outline was given of how this has been studied by means of an electronic computer. The discussion centred around the reduction of the problem to two dimensions by means of a coordinate system moving with the ice, and systematic surface temperature differences existing at present between East and West Antarctica.