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RESEARCH COMMITTEE ON MINIMUM STANDARDS OF ACCOMMODATION.

Minutes of the Second Joint Meeting of Sub-Committee No. 5 (Ventilation) and 7 (Heating and Cooling) held in the Board Room of the Council for Scientific and Industrial Research on Monday 22nd March at 9 a.m.

Present:

Dr. A.J.A. Roux - Chairman.
 Mr. P.H. Connell - Organising Secretary.
 Mr. C.L. Scott - Hon. Consultant to C.S.I.R. on Solid Fuel.
 Mr. Cawood - Department of Public Works.
 Mr. S.C. Mossop - National Physical Laboratory.
 Mr. A.M. Mehl - S.A. Bureau of Standards.

In Attendance:

Miss S.M. de Beer.

Apology:

Mr. Swardt - S.A. Bureau of Standards.

1. CONFIRMATION OF MINUTES.

The Minutes of the previous meeting were confirmed and signed.

2. INDIVIDUAL REPORTS.

These had all been received.

3. INTERIM REPORT.

Dr Roux apologised for the fact that it had not been possible to complete this report sooner, and circulate it to members beforehand.

It was agreed that the meeting go through the report now and make any desired amendments and alterations. The actual wording of the report would be left to the Organising Secretary who would, in consultation with the Chairman, add a section giving the conclusions of the sub-committee.

Section 1. Introduction.

Paragraph (b) was altered as follows :

"Heat transmission through building components apart from depending on the thermal properties of the materials also depends on the film coefficients, which in turn are dependent on the air movement over the internal and external surfaces."

In Section 2 Human Comfort, it was felt that "comfort" was rather a vague term. It was agreed to add the words "Health and Efficiency" to the heading, and also to put in a definition somewhere as to what is meant by comfort.

Mr./

Mr. Mossop suggested that the third paragraph be changed as follows :

"It is well-known that the human body possesses a remarkable system whereby its temperature is maintained approximately constant under conditions of everyday life. Accumulation of the heat produced by metabolic processes is prevented by regulation of the rate of heat loss. This heat loss occurs by evaporation ... etc."

This was agreed to.

It was agreed to insert a footnote defining (a) Mean radiant temperature of the environment and to add a clause (d) Emissivity of clothing.

On page 3 (b)(i) the first sentence of the paragraph was altered as follows :

"The Kata-Thermometer is a special form of thermometer which may be used either with a wet bulb or a dry bulb."

(iii) Eupatheoscope. It was agreed to insert at the beginning the sentence

"This instrument was developed by Dufton in the United Kingdom."

(iv) Effective Temperature Scale. It was agreed to alter the words after "account" as follows :

"but suffers from the disadvantages that the method of measurement makes no allowance for radiant heat".

The last sentence was deleted.

It was agreed to combine the paragraph ending "physical factors into account" and the next one beginning "The effects of radiation".

On page 6, an alteration was made to the second last paragraph of Section 2, the last sentence reading "... the corrected effective temperature in spaces where people live should be kept between 65° and 80°F. When more information is available, it will probably be possible to prescribe closer limits for a comfort zone for South African conditions".

On page 7, at the end of the fourth paragraph, the sentence "Furthermore the heating rate is of great importance when heating has to be applied in winter" was added to the end of the paragraph.

The Department of Public Works Model Building By-laws were added to the list of references given at the bottom of the page.

At the bottom of page 12, it was agreed to add the sentence

"It is recommended that a ceiling or insulated lining be provided".

On/

On page 13, paragraph 4, after the words "colour of the roof paint" the phrase "and the texture of the roof" was added.

On page 15 Section (ii), Mr. Scott pointed out that the word "outdoor" was wrong. "Orthodox Hot Water System" was the correct reading.

On page 16, Section (c) it was agreed to make the last part of the paragraph beginning "As regards height of chimney" into section (d).

It was agreed that on page 17 Electric Immersion Heaters, paragraph (2), should have some reference to the fact that the odour of cooking would then permeate to the living room - but in sub-economic housing this was practically unavoidable.

It was agreed that paragraph (9) on page 18 needed some further qualification and that the Organising Secretary should discuss this with Mr. Scott.

Mr. Cawood referred to the question of the supply of hot water in bulk which he felt was an important aspect of this study. The Chairman agreed, but said that for the Interim Report it had not been possible to go into this question, although it was one which the Sub-committee would have to study eventually.

It was agreed that mention of this intention of the Sub-committee be made in the Interim Report and also that reference be made to the use of gas for heating and cooking.

As there was not sufficient time left to go through the last part of the draft Interim Report, the Sub-committee agreed that Dr. Roux, Mr. Connell and Mr. Mossop should now be left to complete the report, incorporating the Sub-committee's amendments. Mr. Connell would be responsible for the wording, and Dr. Roux and Mr. Mossop would check through the tables together.

Mr. Cawood mentioned that as he was shortly going overseas he would not be able to attend the meetings of the sub-committee for a time. In his absence Mr. Grabe of his Department would deputise for him.

The meeting ended at 12.55 p.m.

Confirmed.

C H A I R M A N.

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