

**NATIONAL RESEARCH COUNCIL OF CANADA
ASSOCIATE COMMITTEE ON SOIL AND SNOW MECHANICS**

**PROCEEDINGS
OF THE
CANADIAN REGIONAL PERMAFROST CONFERENCE
1 AND 2 DECEMBER 1964**

**Prepared by
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TECHNICAL MEMORANDUM NO. 86

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FOREWORD

This is a record of the Canadian Regional Permafrost Conference which was held at the Northern Alberta Jubilee Auditorium, Edmonton, Alberta, on 1 and 2 December 1964. The Conference was sponsored by the Associate Committee on Soil and Snow Mechanics of the National Research Council. A list of those in attendance is included as Appendix "A" of these proceedings.

The overall theme of the Conference was engineering problems in the discontinuous permafrost zone. Papers from both Canada and the United States considered the distribution of permafrost in Western Canada and Alaska as an introduction to engineering site investigations and engineering construction - building foundations, roads and airstrips, and municipal services. In Session I, under the chairmanship of Dr. J.G. Fyles, three papers were presented. Session II was chaired by Mr. T.A. Harwood and two papers were presented. The Chairman of Session III was Mr. R.A. Hemstock; four papers were presented. The Chairman of Session IV was Mr. G.H. Johnston, at which three papers were presented. The colour film "Building in the North" produced for the Division of Building Research, National Research Council, by the National Film Board of Canada, was shown. Of the twelve papers presented at the Conference, eight are reproduced in their entirety in these proceedings and four are presented in summary form.

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Dr. J.B. Mawdsley

Dr. J.B. Mawdsley was the first Director of the Institute for Northern Studies, University of Saskatchewan, Saskatoon, Saskatchewan, and a member of the National Research Council Associate Committee on Soil and Snow Mechanics. It is with great regret and respect that his sudden and unexpected death on 2 December 1964, in Edmonton, just after the conclusion of the Canadian Regional Permafrost Conference, must be recorded. He served on the Permafrost Subcommittee, which sponsored this Permafrost Conference, since its inception in 1960, and participated actively in its deliberations. All who attended the Conference herein recorded will recall his obvious pleasure in the proceedings and will share in the widespread regret at his passing.

R. F. Legget

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