

Foreword

This volume is a record of the proceedings of the Canadian Centennial Conference on Mining and Groundwater Geophysics, held at Niagara Falls, Canada in October, 1967. The conference, sponsored by the Geological Survey of Canada and the Associate Committee on Geodesy and Geophysics of the National Research Council, was one of the many centennial projects that marked Canada's hundredth anniversary as a nation.

Exploration geophysics has benefited the Canadian mining industry especially in the years since World War II, and many of the new and important metal mines in Canada owe their discovery to recent and improved methods of mining geophysics.

Groundwater exploration geophysics, while relatively advanced in several countries, is new to Canada, but it has great potential, not only in our arid areas, but also in some of the densely populated areas where the supply of enough potable water has become a problem in recent years. There is promise that several of the newly developed methods of mining geophysics will find application to groundwater exploration.

More than 500 geophysicists and geologists, representing 51 countries attended and contributed to the conference. This large attendance suggests that the meetings filled a long-standing need for such a conference. The intense interest demonstrated by the delegates indicated that they came for one purpose — to learn and to exchange technical ideas on geophysical exploration methods.

This conference may have been the first relatively large and truly international meeting of its kind. It is to be hoped that this volume will continue to be useful until another similar conference is held which will bring a review of the 'state of the art' up to date. Geophysical exploration is changing so rapidly that it will not be long before another survey such as this will be required.

Whether mining and groundwater exploration methods and activity will be able to keep abreast of the insatiable demands that will be made upon them by the burgeoning industrialized societies of the modern world will depend, in large measure, upon the efforts of scientific groups such as the ones that organized and attended this conference, contributed to this volume, and to whom we are greatly indebted.

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