

FOREWORD

This volume contains the proceedings of an International Symposium on Geophysics and Geochemistry applied to the search for Metallic Ores, held in Ottawa in October 1977.

The symposium was planned and organized by a committee of the Canadian Geoscience Council, with the support of the Geological Survey of Canada and numerous industrial benefactors. It was designed to be a successor to the Canadian Centennial Conference on Mining and Groundwater Geophysics held at Niagara Falls, Ontario, ten years previously. During the intervening decade the National Research Council Associate Committees had been dissolved and succeeded, in the case of the earth sciences, by the Canadian Geoscience Council. This council is composed of representatives of all scientific and professional societies concerned with the diverse aspects of earth science in Canada. Mineral exploration, particularly metalliferous mineral exploration is an activity for which Canada has established a world-wide reputation. Much of this reputation stems from the development of, and experience in using modern technology to explore for concealed mineralization. Geophysical techniques have been progressively developed and applied for this purpose over the past 30 years, and within the last 10 years geochemical techniques have achieved equal importance. For these reasons the Canadian Geoscience Council fully supported the recommendation of the Symposium Organizing Committee that Exploration '77 should give equal weight to geophysics and geochemistry in its review of modern exploration techniques. So in this respect the 1977 symposium differed from that held in 1967.

The symposium was opened by the President of the Canadian Geoscience Council, P.J. Savage. It was attended by 770 registrants from 36 countries including an official delegation from the People's Republic of China. Forty papers were presented over a 4 day period. Concurrently with the symposium an exhibition of exploration equipment and results was held, which provided a forum for 33 exhibitors. Overall every effort was made to provide a balanced picture of metalliferous mineral exploration methods as they exist in the late 1970's. Thanks are due to all those who contributed their time and energy to the planning, preparation and execution of the symposium, and to the authors who spent many long hours before and after preparing their material for presentation and publication. Especial thanks are due to Peter Hood for his painstaking and indefatigable efforts in shepherding papers through the critical readers into their final form.

The following were members of the Organizing Committee for Exploration '77:

Stanley W. Holmes	Honorary Treasurer
Bernard E. Manistre	Secretary/Treasurer
Peter J. Hood	Chairman, Program Committee
Harold O. Seigel	Convener Geophysics
J. Alan Coope	Convener Geochemistry
Roger M. Pemberton	Co-convener, Case Histories
Kenneth A. Morgan	Co-convener, Case Histories
Pauline Moyd	Adviser
John Needham	Chairman, Exhibition Committee

Arthur G. Darnley
General Chairman