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# **THE CANADIAN MINERALOGIST**

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Part 1



**SHARON W. BACHINSKI**

## LAMPROPHYRES AND RELATED ROCKS

## PREFACE

Sharon Lee Werner Bachinski, Professor of Geology and former Assistant Dean of Science at the University of New Brunswick in Fredericton, died suddenly in March, 1986. The ten papers which follow this preface are intended as a memorial to Sharon's devotion to science. Most of the contributions concern alkaline igneous rocks, particularly lamprophyres, lamproites and kamafugitic rocks, the study of which had gained Sharon a well-deserved international reputation early in her career.

In 1985, Sharon organized a symposium on "Lamprophyres, Lamproites, Ultrapotassic and Related Basic and Ultrabasic Rocks" held during the Joint Annual Meeting of the Geological Association of Canada and the Mineralogical Association of Canada, at the University of New Brunswick. This extremely successful symposium attracted a large international audience and it was hoped that the papers presented at this symposium might form the basis for a special issue of *The Canadian Mineralogist*. Unfortunately, many of the symposium presentations were already in the publication process. As a consequence, invitations were sent to as many of the symposium participants as possible, as well as to others interested in these rocks, to submit manuscripts to *The Canadian Mineralogist* for this issue.

The ten papers which constitute this issue have a genuine international appeal, having been written by 24 authors based in Australia, Canada, Czechoslovakia, Germany, Italy, the United Kingdom and the United States. All these contributions are concerned with alkaline magmatism and incorporate petrogenesis and geochemistry of rocks either on a regional scale (e.g., Rock *et al.*, Venturelli *et al.*, Peccerillo *et al.*), or on more specific locations (e.g., Bergman *et al.*, Meyer & Mitchell, Mauger, Greenough *et al.*). The papers by Némec, and by Pe-Piper & Jansa have a mineralogical bias. Everyone concerned with the special issue of *The Canadian Mineralogist* hopes that it will prove a fitting and lasting memorial to Sharon Bachinski, whose personal contribution to our knowledge of these rocks was outstanding.

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