

MINERALOGICAL MAGAZINE

VOLUME 47 NUMBER 345, DECEMBER 1983

Sulphide Mineralogy and Petrology with Special Reference to Metamorphic Rocks

PREFACE

THE Anniversary Meeting of the Mineralogical Society in January 1983 was devoted to 'Sulphide Mineralogy and Petrology with Special Reference to Metamorphic Rocks' and held in conjunction with the Mineral Deposits Studies Group of the Geological Society and our joint Metamorphic Studies Group with that Society. Although work on sulphides has been actively undertaken in this country for several decades, it was the first time any of the Societies had devoted a meeting to this subject area. The papers published here make up the majority of those presented at the meeting. Invited contributions by A. Putnis and P. B. Barton, Jr. do not appear in this volume because the main substance of these papers is, or will be, available in published form elsewhere (see 'Principles of Mineral Behaviour', A. Putnis and J. D. C. McConnell, Blackwell, 1980; P. B. Barton in *Mining Geol. Japan*, **28**, 293, 1978; and forthcoming articles by Eldridge, Barton, and Ohmoto and by Barton, Toulmin, and Wiggins in *Economic Geology*).

The articles published here range in subject matter from the crystal chemistry, thermochemistry, and phase relations of sulphides (Scott; Powell; Patrick and Hall) to kinetics and

mechanisms of exsolution processes (Kelly and Vaughan), and from mineralogical and geochemical studies of sulphide ores in a range of environments including sedimentary, sedimentary exhalative, and hydrothermal (Bowles *et al.*; Hallbauer and von Gehlen; von Gehlen *et al.*; Moles; Jasinski; Van de Vusse and Powell) to mineralogical and textural studies of sulphides which have undergone extensive deformation and alteration during metamorphism (Craig; McClay and Ellis). The wide ranging national and international interest in sulphide mineralogy and petrology is well illustrated by these contributions.

Thanks are due to my co-convenors—Dr N. Fortey (Mineral Deposits Study Group) and Dr H. Colley (Metamorphic Studies Group) for their help in organizing and running the Meeting. The Royal Society, the Geological Society, and the Mineralogical Society all contributed funds to help with the expenses of invited speakers. Finally, my thanks to Mrs Pam Minor for much help with the secretarial work, to Dr Andrew Clark for advice with all aspects of the editing of these papers and to our anonymous referees for their thoroughness in reviewing the contributions.

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