

about 19.6 % Zn, 8.7 % Mn, and 17 % Fe. The history of the mines and notes on famous mineral collections from the area are also given. We are told that the Boston owners of the mine imposed temperance so that in 1880 'the bar of the Franklin hotel, instead of a display of bottles, exhibited various collections of ores'. More than half the book, however, is given over to the alphabetical checklist of minerals from these localities, in which each mineral is characterized by its composition, occurrence, abundance, and mineralogical history.

Charles Palache, in *The Minerals of Franklin and Sterling Hill* published in 1935 as a Professional Paper of the U.S. Geological Survey, critically reviewed all the minerals then reported from these localities; his study invalidated a number of minerals and added a number of proven new occurrences. The present list invalidates some additional mineral names and adds 'about 66' valid minerals that have been recognized from these localities since 1935. With some exceptions text references earlier than 1935 are not included as they can be found in the above work, but some 160 references are given for publications on these localities since that date. The black-and-white photographs on paper ill-suited for their reproduction hardly begin to do justice to the magnificence of many of the specimens, though the franklinite octahedron about 2 inches on edge and a group of dodecahedral andradite crystals, the largest almost 5 inches in size, can hardly fail to arouse enthusiasm. But at 4½p per page this slim book is very expensive and one continues to cherish Professional Paper 180.

R. A. HOWE

JONES (M. J.), Editor. *Geochemical Exploration 1972*. London (Inst. Mining and Metallurgy, 44 Portland Place), 1973. xiv + 458 pp., 336 figs. Price £12.00.

This volume contains the thirty-seven papers presented at the Fourth International Geochemical Exploration Symposium, organized by the Institution of Mining and Metallurgy on behalf of the Association of Exploration Geochemists, and held in London in 1972. The topics covered include virtually all aspects of geochemical prospecting; the authors and titles are listed in full in *Mineralogical Abstracts* (M.A. 73-2308). Although expensive, this book will be required by all geological libraries and will be essential reading for applied geochemists.

R. A. H.