

groups under their respective heads, in the various divisional chapters of the books which they constitute, while the minor groups below orders are treated under sections of these chapters with more or less detail.

Mr. Kirby, being an Englishman and a member of the British Museum staff, it is no more than natural that in his volume he has given British entomology especial consideration, but in so doing he has hardly impaired its value for a text-book to the science of the entire subject. Indeed, the American entomologist's library will be lacking a most useful auxiliary to monographic treatises unless possessed of a copy of this manual. Of all the species making up his seven orders, he states that no less than 12,600 are to be found in Britain, as compared with the 270,000 making up the insect fauna of the world. We see the book's greatest weakness in his introduction, where not sufficient attention has been given to the anatomy of insects, their study from a general standpoint, their distribution in time, their taxonomy and similar matters, all of which give the works of Packard such a peculiar value. Not a single cut illustrates the fourteen pages devoted to his introduction in a volume of nearly three hundred. On the other hand, it would be hard to accord too much praise to the 650 figures contained on 87 plates that embellish the book. To the general student, as a means of diagnosis of the main groups, they must prove of the very greatest assistance, portrayed as they are with marked accuracy, strength, and clearness. For the purpose mentioned, the *Coleoptera* are especially good, bold, and well drawn, though perhaps lacking in that refinement of detail which lends such beauty to the productions of Riley's pencil. Throughout the pages of Mr. Kirby's work we are pleased to find that he has not altogether neglected to consider the economic importance, or the reverse, of many insects to the agriculturalist, and to vegetation, forests, and plant-life, generally—a department now attracting such universal attention in this country.

Upon the whole, we may say that this handsomely gotten-up manual presents but little for adverse criticism, when we come to consider what the volume aims to give, while it offers a great deal to commend it, and it is a work that any entomologist in this country will be proud to see upon the shelves of his library, as it is one that the student of entomology will be constantly called upon to consult.

R. W. SHUFELDT.

Primitive Man in Ohio. Vol. I. By WARREN K. MOOREHEAD. New York, G. P. Putnam's Sons. 246p. 8vo. Illustrated.

THE problem, Who were the mound builders? has long been one which has interested students of the antiquities of the valley of the Ohio, without much unanimity of conclusion on the part of those who undertook to answer it. Whoever these ancient peoples were, Mr. Moorehead and his collaborators in the work before us have been enabled by a series of admirably conducted investigations to throw a new light on their arts and institutions. These collaborators are Mr. Gerard Fowke, Dr. H. T. Cresson, and Mr. W. H. Davis; each of whom contributes one or two chapters to the book, on special fields.

After an opening chapter on palæolithic man, there are descriptions of excavations in various sites, the most celebrated of which are Fort Ancient, Madisonville, and Hopewell's Tumuli. The discoveries in the latter were especially rich, and will figure prominently in the archæological department of the Chicago Exhibition. They are particularly interesting as indicative of an extended use of metals, notably copper.

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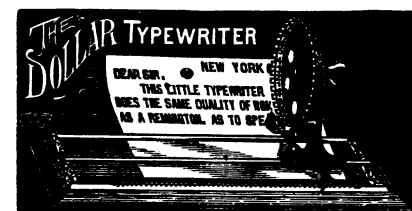
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