

CONTRIBUTIONS ON THE PERMO-CARBONIFEROUS AVICULOPECTINIDÆ OF NEW SOUTH WALES.*

BY

HAROLD O. FLETCHER,

Assistant in Palæontology, The Australian Museum;
with an Introduction by

W. S. DUN,

Palæontologist to the Geological Survey of New South
Wales, and Lecturer in Palæontology,
University of Sydney.

(Plates i-xvi and Figures 1-6.)

INTRODUCTION.

In 1927 the Australian Museum acquired the collections of Mr. Varney Parkes. This assemblage of fossils, upwards of five thousand specimens, is the result of thirty years' careful and assiduous field work, more particularly in the Illawarra district of New South Wales.

This area has been the subject of considerable geological work which has been recorded by Strzelecki, Dana, W. B. Clarke, T. W. E. David, L. F. Harper, C. F. Laseon, Miss Ida Brown, and others. The specimens described in this paper are from the stage named by David "Nowra grits" in the Upper Marine Series of the Permo-Carboniferous, and may be regarded as supplementing the collection in the Mining and Geological Museum, Sydney, that described by John Morris in Strzelecki's "Physical Description of New South Wales and Van Dieman's Land," Dana's collection now preserved at Washington, and Clarke's described by De Koninck and destroyed by fire in 1882.

The collection is particularly rich in Pelecypoda, and the Aviculopectinidae have been selected as the subject of the first paper

* Where not otherwise designated the various specimens are from the Varney Parkes collection.