

## AMOS H. WORTHEN.

PALÆONTOLOGIST AND GEOLOGIST.

BORN OCTOBER 31ST, 1812; DIED MAY 6TH, 1888.

AMOS H. WORTHEN, a son of the late Thomas Worthen, was born at Bradford, Orange County, Vermont. He commenced life as a Schoolmaster in Harrison County, Kentucky, but in June, 1836, he removed to Warsaw, Illinois, where he spent the remainder of his life. While engaged in business, he became interested in the science of Geology, and made a large collection of fossils, and also of those remarkable geodes of the Keokuk limestone in that region.

On the institution of the Geological Survey of Illinois in 1851, under Prof. J. G. Norwood, he was appointed his Assistant, which post he filled for four years. From 1855 to 1857 he was Assistant to Professors James Hall and J. D. Whitney on the Geological Survey of Iowa, and the volume published in 1858 owes much of its value and interest to the labours of Mr. Worthen. The many beautiful plates of this large volume are from drawings by Mr. F. B. Meek, who was afterwards associated with Mr. Worthen in the palæontology of his own Reports.

In March, 1858, Mr. Worthen was appointed by the State to the charge of the Geological Survey of Illinois, which position he occupied till 1872, when he became Curator of the Illinois State Museum.

The seven completed volumes of the Geology and Palæontology of Illinois form the best and most lasting monument to his memory. Mr. Worthen left an eighth volume in the press. Besides these voluminous reports, he issued a large coloured geological map of Illinois, and three volumes on the Economical Geology of the State. He was also the means of gathering for the State Museum one of the largest and best collections of fossils in the country.

In the early part of the Survey Mr. Worthen encountered and overcame great opposition. His modesty and earnestness, high character and quiet dignity, gave him great influence, and the many difficulties disappeared before him. Although nearly 75 years of age at his death, he had not given up work; the preparation of the text and plates illustrating the Silurian Invertebrate fossils of Illinois, for the eighth volume, was occupying him, when a sudden attack of pneumonia brought all to an end.—*Silliman's American Journal*, August, 1888.

## WILLIAM HELLIER BAILY, F.L.S., F.G.S., M.R.I.A.

PALÆONTOLOGIST AND GEOLOGIST.

BORN JULY 7, 1819; DIED AUGUST 6, 1888.

WE regret to announce the death, at Rathmines, near Dublin, of Mr. W. H. Baily, who, after a lingering illness, passed away on August 6, at the age of 69. The greater portion of his life was

devoted to Palæontology, and most of the fossils which he described, and those which illustrated his works, were drawn on wood or stone by his skilful hand.

Mr. Baily was born at Bristol on July 7th, 1819, and he inherited artistic talent, for both his grandfather and father, as well as his uncle, Edward Hodges Baily, R.A., were remarkable for their carving and sculpturing. He began his scientific career in 1837 as Assistant Curator in the Bristol Museum, resigning this post in 1844, when he was attached to the Geological Survey of Great Britain as Draughtsman. In the following year he was appointed to the staff as Assistant Geologist under Sir Henry De la Beche. His duties, however, were confined to the Museum work, and in 1854 he was styled Assistant Naturalist, serving for a time directly under Edward Forbes, and afterwards under Professor Huxley. In 1857 he was transferred to the Irish branch of the Geological Survey, as Acting Palæontologist, and he retained this post till the close of his life. In 1868 he received the additional appointment of Demonstrator in Palæontology to the Royal College of Science for Ireland.

Mr. Baily was the author of many papers on palæontological and kindred subjects, and his labours will be best shown by the list of his works, which amount to 43 in number. His most important private work was that published in parts from 1867 to 1875, being *Figures of Characteristic British Fossils*: with descriptive remarks. Unfortunately, the work did not sufficiently recompense the author from a pecuniary point of view, and after the first volume was published, completing the Palæozoic portion, it was abandoned. In 1867 he received the proceeds of the Wollaston Donation-fund, awarded by the Geological Society of London, in aid of this work. His official labours comprised Palæontological Notes in the *Explanatory Memoirs to the Maps of the Geological Survey of Ireland*, and the list of these alone would be a lengthy one.

Mr. Baily, like the late Prof. Morris, and Mr. J. W. Salter, with whom he was a contemporary and a fellow-worker, belonged to that small body of Geologists and Palæontologists, now, alas! nearly all passed away, who possessed an extensive general knowledge both of rocks and fossils, and also the invaluable ability *to draw*, as well as to describe, what they saw and studied, whether in the field or in the cabinet. These men can never be replaced by our modern student-specialists.

Personally Mr. Baily was of a genial disposition and his loss will long be felt by his friends and colleagues.

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ERRATA.—Please make the following corrections:—GEOL. MAG. March No. p. 123, in footnote, line 2, for “Memoir” read “*Meunier*.” In May No. p. 240, line 33 from top of page, for *the work which Mr. Lee has actually done*—read “the work which *we see* actually done.”—In August Number, p. 382, line 3 from bottom, for *lavas* read *laws*.—EDIT. GEOL. MAG.