

American stratigraphy. Several contributions were made to scientific journals as the result of his investigation. In his volume of travels in America, which was published in 1845, he gives also an account of his observations among the Carboniferous rocks of the Cumberland-Frostburg area and a list of the fossil plants which he found. In this volume there is a geological map of the United States in which the geology of Maryland is given upon a very small scale. The fossil plants collected by Mr. Lyell were described and figured by Mr. Bunbury in the Quarterly Journal of the Geological Society of London.¹

The discovery of microscopic forms in the Tertiary deposits of Maryland and Virginia began to attract attention at this period and articles were contributed by J. W. Bailey² and C. G. Ehrenberg³ upon the subject.

The exhaustive investigations of Professor James Hall of Albany, N. Y., upon the Paleozoic fossils of that state led him early to the study of similar material in adjacent states. In connection with this work large collections of Paleozoic fossils from western Maryland were obtained and descriptions and figures of numerous species from Cumberland and vicinity appeared already in Volume 1 of the Paleontology of the State of New York, which was published in 1847.

The discovery of gold in Montgomery county in 1849 and its exhibition that year before the American Philosophical Society led to several descriptions⁴ of the deposits in scientific publications.

During the second decade of this period Professor H. D. Rogers, the State Geologist of Pennsylvania, conducted investigations along the borders of that state that were of much value in determining the classification and distribution of the geological formations represented in central and western Maryland. The final report of this survey appeared in 1858 and is still an important source of information.

¹ Vol. ii, 1846, pp. 82-91.

² Amer. Jour. Sci., vol. xlvi, 1844, pp. 137-141; *ibid.* vol. xlviii, 1845, pp. 321-343; *ibid.* 2 ser., vol. vii, 1849, p. 437; *ibid.* 2 ser., vol. xi, 1851, pp. 85-86.

³ Bericht. d. k. Akad. Wiss., Berlin, 1844, pp. 57-97.

⁴ Proc. Amer. Assoc. Adv. Sci., vol. iv, 1851, pp. 20-22; Proc. Amer. Phil. Soc., vol. v, 1854, p. 85.