

CHARLES ROEDER.

BORN JULY 22, 1848.

DIED SEPTEMBER 9, 1911.

CHARLES ROEDER was a native of Gera, Thuringia, and came to this country when 21 years of age as a clerk in a Manchester shipping house. He later started in business for himself as an agent for several important Continental and English manufacturers.

He devoted a large measure of his spare time in research work of various kinds, geology, botany, philology, and history being his chief subjects. Prehistoric archæology, also, came in for a good share of his time in later life.

His geological investigations were by no means small, and one has only to peruse the Transactions of the Manchester Geological Society and various other local journals in order to gain some idea of his work in this science.

The sections of Upper Coal-measure and Permian strata exposed in cutting the railway from Fallowfield to Levenshulme, on the south side of Manchester, afforded him excellent opportunities to pursue one of his pet subjects. To him science is especially indebted for a knowledge of these beds. With unflagging energy he examined and measured this section inch by inch, collecting, often with considerable difficulty, the various fossils contained therein, afterwards forwarding the results of his labours to Messrs. Jones and Kirkby, Professor Geinitz, and others, for expert examination and identification. In his honour a new species of Ostracoda was named by Messrs. Jones and Kirkby, viz. *Carbonia roederiana*.

Mr. Roeder later presented a fine series of fossils from this and many other localities at home and abroad to the Manchester Museum.

J. W. J.

ROBERT CAIRNS.

BORN 1854.

DIED DECEMBER 29, 1911.

By the death of Mr. Robert Cairns, which took place from heart failure at his residence, Hurst, Ashton-under-Lyne, Lancashire loses a well-known local geologist. The deceased came to Ashton from Hawick, Roxburghshire, about 1875, and for many years acted as assistant to Mr. Abraham Park, J.P., at the Albion Schools. This position he relinquished later in order to take over the headmastership of the Hurst Undenominational (Old British) School, which he held for the past thirty-five years.

He was a man of wide culture and endowed with a strong personality that brought him numerous friends. As an enthusiastic geologist and conchologist he made a name for himself among a wide circle of local naturalists.

For many years he assiduously collected fossils from the numerous coal-pits lying between Ashton and Oldham, and formed an extensive and valuable collection of fish and other remains. During the sinking operations of the Ashton Moss pit, at Audenshaw, he took advantage of the excellent opportunity afforded of collecting and studying the various fossils met with, and by his unwearied labour got together a fine series of interesting specimens. He also collected extensively

from the well-known 'marine band' in the Middle Coal-measures exposed on the banks of the River Tame at Dukinfield, *Aviculopecten cairnsii*, Bolton, from this horizon being named in his honour.

Further afield the Mountain Limestone areas around Castleton, Derbyshire, and Clitheroe, Lancashire, came in for a large share of his spare time, and by his keen perseverance he amassed a considerable collection of interesting forms from both these places.

When he began to seriously take up conchology as his hobby the exigencies of space led him to hand over *en bloc* his entire collection of geological specimens to the Manchester Museum, an acquisition which was gratefully accepted by the Museum authorities as a very welcome addition.

Though he could never be persuaded to write anything about his varied experiences, he was ever ready to place his wide and practical knowledge at the disposal of his friends.

J. W. J.

GEORGE ATTWOOD,

F.C.S., M. INST. C. E., F.G.S., ETC.

BORN 1845.

DIED FEBRUARY 9, 1912.

MR. GEORGE ATTWOOD, J.P., who died on February 9 last at his residence, Steyning Manor, Stogursey, Somerset, was the son of the late Mr. Melville Attwood, F.G.S., etc., mining and civil engineer, and nephew of the late Professor Edward Forbes, F.R.S., Edinburgh, and David Forbes, F.R.S. Mr. Attwood was born at Carlisle in 1845, and educated at Edward VI's Grammar School, Lichfield. He was a member of the Institute of Civil Engineers, the Institute of Mining and Metallurgy, and the American Institute of Mining Engineers; Fellow of the Geological, Chemical Faraday, and Zoological Societies, and of the Society of Arts; a member of the London Chamber of Commerce; and Justice of the Peace for the Province of British Columbia. He commenced his professional career at the age of 16, under his father and Mr. W. W. Palmer, C.E., in California and Nevada, and two years later was appointed assayer, metallurgist, and chemist to the Ophir Company, Great Comstock Lode, Nevada, U.S.A. He constructed and designed large metallurgical, electrical, and water works, aerial tramways and railways in Nevada, California, Mexico, South America, Canada, South and North Africa, and practised as a consulting civil and mining engineer at 56 Moorgate Street, E.C., under the name of Messrs. Attwood & Hopper. Mr. Attwood also found time for considerable literary work, being author of numerous scientific publications and papers on geology, mining, mining plant, metallurgy, assaying, meteorology, microscopic research, etc. He was one of three or four surviving male descendants of an ancient Worcestershire family which came originally from Brittany, whose name 'De Bois' was anglicized into 'Attwood'. Members of the family were knights of the shire as early as 1327. He married first Maria Louise (who died in 1892), daughter of James Tansley, F.S.A., of London, and secondly Charlotte Caroline, daughter of William Burchell, late Under-Sheriff of London.

The late Mr. Attwood was frequently called upon to advise British