vegetation of specific areas of the earth's surface. German overseas expansion found in Engler a helpful exponent in organising the botanical exploration of the German spheres of influence in tropical Africa and New Guinea, and in the collation and publication of the results.

In 1881 Engler founded his "Botanische Jahrbücher", a medium for the publication of communications on taxonomy, plant-geography, and planthistory. The increasing importance of the Berlin Garden and Museum under his directorship as a centre of taxonomic work was reflected in the growth of the publication, which still appears regularly.

A conspicuous monument of the abundant energy and organising power of Adolf Engler is the fine Botanic Garden and Museum which he planned at Dahlem, outside Berlin, to replace the former restricted quarters in the city. Here in the open country he was able to develop his ideal, and the Berlin-Dahlem establishment holds a high place among the botanical institutions of the world. Here he continued to work after his retirement, and here, we gather from an appreciation by his pupil and successor, Prof. Ludwig Diels, he found his last resting-place. Few men have equalled his output of botanical work or exercised directly or indirectly a greater influence on the development of the branches of botany to which he devoted sixty years of unremitting and fruitful labour.

A. B. R.

MR. B. B. WOODWARD.

BERNARD BARHAM WOODWARD died on Oct. 27, aged seventy-seven years. He was the only son of Bernard Bolingbroke Woodward, Librarian of the Royal Library, Windsor, and of his second wife, Emma, daughter of Mr. George Barham of Witherdale Hall, Suffolk. He was grandson of Samuel Woodward, the Norwich geologist and archæologist, and nephew of S. P. Woodward, the well-known author of "The Manual of the Mollusca", and of Dr. Henry Woodward, Keeper of Geology in the British Museum (Natural History). He was educated at Merchant Taylors' and University College schools, but his education was interrupted by the early death of his father, and he started life as a clerk in Messrs. Robarts, Lubbock and Co.'s bank.

In 1873 Woodward was appointed Curator to the Geological Society, and was responsible for the removal of the Society's collection from Somerset House to Burlington House and its rearrangement in the new premises. In September 1876 he entered the Printed Book Department of the British Museum, and on Oct. 13, 1881, he was transferred to the new Natural History Museum at South Kensington and was placed in charge of the General Library there, being promoted first-class assistant on Aug. 22, 1887. He retired on July 21, 1920, but was further retained until the beginning of 1922 to earry on the work of the Library Catalogue. He was twice married, his second wife dying in 1904, but leaves no children.

With the scientific environment of his youth it is no wonder Woodward formed a collection of shells when he was ten years of age, and though in early manhood an ardent geologist, serving five years as secretary of the Geologists' Association, all through his long life malacology was his favourite study. Apart from a few popular articles, his first serious contribution was on the Pleistocene Mollusca of the Barnwell gravels in 1888, and from then forward, although hampered with ill-health, he was the author or joint author of a very large number of papers dealing with many aspects of malacology, pub-lished in the Annals and Magazine of Natural History, the Journal of the Linnean Society, the Quarterly Journal of the Geological Society, the Proceedings of the Zoological and Malacological Societies, the Essex Naturalist, Geological Magazine, and in many scattered reports on archeological excavations.

Woodward was responsible for the Molluscan portion of the "Zoological Record" from 1893 until 1896, whilst the articles on the non-marine mollusca of the various counties in the Victoria County Histories are from his pen. He was author of "The Life of the Mollusca", 1913, "Catalogue of the British Species of Pisidium", 1913, and joint author of "The Synonymy of the British Non-Marine Mollusca", 1926, the two latter being published by the Trustees of the British Museum. In his official capacity, he was responsible for the formation of the finest natural history library in the world, whilst his "Catalogue of the Books, Manuscripts, Maps and Drawings in the British Museum (Natural History)", five volumes, 1903-15, and supplement, 1922, will always remain as a permanent memorial to his knowledge and painstaking accuracy. This scientific knowledge was always at the service of all students, and he contributed many paragraphs upon malacological papers to the columns of Research Items in NATURE. His death is mourned by a large circle of friends.

DR. LUDWIG MOSER, director of the Institute for Analytical Chemistry at the Technical High School in Vienna, and president of the Verein Oesterreichischer Chemiker, died on Sept. 26 after a motor accident in which his wife was also killed. We learn the following particulars from the Chemiker-Zeitung: Born at Vienna in 1879, Moser studied under Vortmann at the Technical High School, and after spending some time in industrial work was appointed assistant to Vortmann. In 1920 Vortmann retired and Moser succeeded to the chair. He reorganised the Institute, which was transferred to new premises, and a department was devoted to micro-chemical analysis. Moser was an untiring investigator, and up to the time of his death more than ninety publications had appeared under his name, many of which related to the rare earths. He also published volumes on the estimation of bismuth and on the preparation of pure gases. At the time of his death he was engaged on the manuscript of a "Lehrbuch der analytischen Chemie ", which is not more than half completed.

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