diseases and in that of the so-called 'Social Problem Group'.

That characteristic of Sir Bernard Mallet which will have stamped itself most strongly on the minds of all his friends is the charm of his personality. He was a gentleman in the very highest sense of the word. He was always courteous and most helpful to his colleagues. Eugenics as an applied science demands not only theoretical knowledge but also the power to judge between conflicting human motives, needs and prejudices, with the result that the task of its leaders is at times one of extreme difficulty. The Eugenics Society was fortunate in securing the services of a president with such varied experiences, all of which helped him to fill with success the place which he only consented to occupy out of a sense of duty.

PROF. K. K. GEDROIZ

SOIL investigators all over the world will learn with deep regret of the death on October 5 of Prof. K. K. Gedroiz of the Dokuchaiev Soil Institute, Leningrad, and until lately president of the International Society of Soil Science. He was born in 1872 in Bessarabia, was educated in Kiev and graduated in 1897 as a forest engineer at the School of Forestry in Leningrad. He then became assistant to Kossovitch at the Agro-chemical Laboratory of the Ministry of Agriculture. In 1915 he was appointed editor of the Russian *Journal of Experimental Agriculture*, and in 1919 was made professor of soils at the School of Forestry: later on, in 1922, he became lecturer in agricultural chemistry at Nossov, and after Glinka's death in 1928 he was elected a member of the Russian Academy of Science and director of the Dokuchaiev Soil Institute, where he was specially concerned with the laboratory investigations of the soil and also with the soils of the podsol zone.

Prof. Gedroiz for many years carried out important investigations on the process of absorption by soil, attributing it, as van Bemmelen had previously done, to complex reactive substances produced by weathering. Both in their composition and their interaction with dissolved salts these substances were generally so similar in type that he felt justified in speaking of a reactive 'soil complex' modelled on the same lines as a salt, in which the cations could be replaced by other bases or by hydrogen. In the 'complex' of a normal fertile soil the predominant cation is calcium; in other soils it might be sodium, magnesium or hydrogen. In developing these ideas he was able to give a rational explanation of many of the phenomena associated with acid and alkaline soils, and to clear up many obscurities in what had previously been a very difficult subject.

Prof. Gedroiz's work was long unknown to British and American investigators owing to its publication in Russian. A summary issued in an abstract journal attracted the attention of one or two

United States soil workers and they arranged for a translation of all of his papers into English. The volume was widely circulated among other soil investigators and at once ensured the recognition of the high merits of his work.

Gedroiz did much to make Russian soil science famous throughout the civilised world. His investigations into the soil complex and the phenomena of absorption fell easily into line with the studies on soil formation and classification initiated by Dokuchaiev and continued by a group of brilliant successors, Glinka, Neustruev and other workers still surviving: it gave a new and permanent direction to soil science. Gedroiz was of a modest and retiring disposition, rarely appearing at scientific gatherings: many soil investigators who visited Russia in 1930 were disappointed that they were unable to meet him and pay their respects to him. His work had sterling qualities which will ensure its place among the classics of modern science.

E. J. RUSSELL.

DR. WILLIAM GARNETT

THE death of Dr. William Garnett on November 1, at the ripe age of eighty-one years, will cause a feeling of the very deepest regret to those of his contemporaries and coadjutors who knew and appreciated the man and his genius.

Dr. Garnett was born at Portsea on December 30, 1850, and was the son of William Garnett of that town. He received his early education at the City of London School, and continued it at the Royal School of Mines, having taken the first place among the Whitworth scholars in 1869. He afterwards proceeded to St. John's College, Cambridge, of which he was later elected a fellow, having been bracketed fifth wrangler in 1873. He was the first demonstrator of physics in the Cavendish Laboratory under James Clerk Maxwell, whose biographer he became.

Fortunately for the cause of technical education, Dr. Garnett left Cambridge and associated himself with the developments of education which were then taking place. He was exceptionally well qualified to take up the position of a leader in the movement which was then developing throughout the length and breadth of the country for the advancement of what was termed 'technical education'. He held the position of professor of mathematics, physics and mechanics at University College, Nottingham, and later became principal and professor of mathematics in the Durham College of Science, Newcastle-upon-Tyne. Here he did splendid work. Realising that it was most important to associate the educational authorities with the development of technical education, he to some extent laid on one side his teaching duties at Newcastle-upon-Tyne with the view of obtaining an association between his college and the education authorities. He likewise found time during this period to write on behalf of technical education in the *Technical World* and other journals.

It was only natural, therefore, that Dr. Garnett