merely by his inventiveness, but also by his independence of fashions in astronomical thought, by the admirable conservatism he always showed in interpreting his observations, and by the high quality of everything he did. In an epoch during which astronomy has become dominated by huge telescopes, he managed to make contributions of the finest and most significant character by his mastery of the ideas of classical optics, using only small telescopes and comparatively simple apparatus.

Lyot was awarded the Gold Medal of the Royal Astronomical Society in 1939, and the Bruce Medal of the Astronomical Society of the Pacific in 1947. He is survived by a widow and two sons.

R. O. REDMAN

Dr. J. F. Cameron

JOEN FORBES CAMERON, Vice-Chancellor of the University of Cambridge during 1933–35 and Master of Gonville and Caius College during 1928–48, died on March 21 at the age of seventy-eight. He was educated at Perth Academy and the University of Edinburgh before going up to Caius in 1895. In the Mathematical Tripos of 1898 he was Second Wrangler, bracketed with the late Sir James Jeans; and in 1900 he was awarded a Smith's Prize.

Finding that his interests and tastes lay in teaching and administration rather than in original work in mathematics, Cameron devoted his great abilities to these aspects of College and University life, with remarkable success. He had been elected a Fellow of his College in 1899, and in 1900 a lecturer in mathematics. In 1909 he became a tutor and, on his return from important posts in the Ministries of Munitions and Labour during the First World War, senior tutor. Two years later, in 1921, he was appointed bursar. On the death of Sir Hugh Anderson he was elected to succeed him as Master, in which office he governed his College for twenty years; for when, in 1943, he reached the normal retiring age, the College extended his tenure to the maximum permitted by the statutes- to 1948, in which year he reached the age of seventy-five.

Cameron's services to the University of Cambridge were manifold and distinguished. Immediately following his graduation he took a lively interest in the small but growing Department of Engineering, and he played an active part in the development of engineering in the University, being chairman of the Faculty Board for some years. He was elected to the Council of the Senate in 1924 and continued to serve on it for many years. He served also on the Financial Poard and on the General Board of the Faculties. He was chairman of the Buildings Syndicate and, for twenty vears, chairman of the University Press Syndicate. Cameron also took an active part in civic affairs. He was a town councillor for some years and he was chairman of the Cambridge Gas Company. College, in the University, and in the town, Cameron's advice and help were often sought and always freely given. His mind was powerful and clear, his approach to problems of any kind was objective, and his judgment sound; and his sincerity and fairness were beyond question. When he retired in 1948 the University paid him the rare honour of conferring upon him an honorary degree of LL.D.; the Orator saluted him as virum ingeniosum, sagacem, strenuum, amicum firmum et constantem-a concise and apt description.

He married Miss Elfrida Sturge, daughter of John Edmond Sturge, of Birmingham and Montserrat, who survives him with one son and one daughter. A younger son died as a prisoner of war after being captured in France.

J. Chadwick

Dr. R. W. Dodgson, O.B.E.

Born in 1870 in Wigton, Cumberland, of Quaker parentage, Robert William Dodgson went to Owens College, Manchester, and thence in 1890 entered St. Mary's Hospital, Paddington, as a senior scholar in natural science. There he became assistant pathologist and showed outstanding ability as a teacher as well as in his other duties, his time at St. Mary's being rounded-off by a gold medal award with his M.D.(London) in 1898.

Dodgson's subsequent career falls into two periods, the first of which was mostly spent abroad. In 1900 he went to South Africa to inquire into the results of anti-typhoid inoculation of British troops serving there. This War Office appointment was followed by the directorship of the Government Research Laboratory at Cape Town under the Plague Administration, and in 1902 he became director of the Pasteur Institute of Rhodesia at Bulawayo. Two years later he returned to Britain and remained in private work until 1911. He then joined Sir Almroth Wright in an investigation of epidemic pneumonia among employees in the gold mines of the Witwatersrand, but in 1913 he left South Africa after a somewhat severe illness. Dodgson visited laboratories in France and Germany on his way home, and reached England just before the outbreak of the First World War.

The second period began in 1915 with an appoint ment under the Ministry of Agriculture and Fisheries to devise a method of freeing mussels from dangerous pollution. Dodgson's approach to this problem was through a comprehensive study of the physiology of the mussel, coupled with bacteriological investigation. A brilliant piece of research was the result, and his solution was applied on a commercial scale at Conway in 1916. Described in his report on mussel purification (1928), it will long be associated with Dodgson's name. The method he devised depends on the natural functioning of the shellfish in large tanks of sea water free from the irritating effects of sterilizing agents. The advantages of this principle have now been recognized in the United States, where for many years the exposure of oysters to an initial dose of active chlorine in sea water had been the practice for the purpose of purification. Later, Dodgson was appointed director of the Ministry's Shellfish Services. His study of shellfish problems as a whole led to comprehensive recommendations for compulsory treatment of all molluses destined for human consumption in Great Britain. Although fulfilment of his ideal has not become practicable, his method of purification has been applied at some other shellfish When a chance centres in Britain and abroad. occurrence directed his attention to the possibility of using mussel purification installations for oyster culture during the off-season, he initiated a series of experiments which have yielded results of much value.

Before his retirement in 1937, which was followed by two years of service as a consultant in shellfish matters, Dodgson's services were recognized by the award of the O.B.E. He died on March 4 at his home in Conway, a bachelor, after a gradual decline in health.