

Andrews, Manchester and Chicago. He was a vice-president of the Royal Society in 1939 and president of the Physical Society of London during 1941-44. He was created a Knight Commander of the British Empire in 1942.

G. B. B. M. SUTHERLAND

Prof. B. C. P. Jansen

BAREND COENRAAD PETRUS JANSEN was born on April 1, 1884, in the old Dutch town of Zwolle. At the age of twenty he entered the University of Amsterdam as a student of chemistry. He passed his final examination in 1909 and in the same year became assistant to the newly appointed professor of physiology in that University, G. van Rijnberk. In the stimulating scientific atmosphere, created by the young professor in the centuries-old building—in which the Physiological Laboratory is still housed to-day—Jansen took his first steps in biochemistry. The subjects he investigated were mainly related to digestion in the intestinal tract and the metabolism of the amino-acids. Outstanding was his discovery of the synthesis of urea from amino-acids in the mammalian liver *in vitro*, published in 1915. But before this work had been performed, namely, on July 10, 1912, Jansen had already obtained the doctorate of chemistry of the University of Utrecht, while in 1913 he had been admitted as *privaat-docent* in Physiological Chemistry at the University of Amsterdam.

Jansen's first period at this University came to an end in 1917, when he moved to Batavia (now Djakarta) in Java, then the capital of the Dutch East Indies. Here he was soon appointed head of the Department of Pharmacy and Chemistry of the Medical Laboratory, the institute in which the epoch-making researches of C. Eijkman and G. Grijns on polyneuritis gallinarum and human beriberi had been performed. The new building erected for this department according to Jansen's design was to be a model for well-equipped research institutions in the tropics.

In 1927 Jansen was also appointed professor of chemistry in the newly founded Medical School in Batavia. But in this year his sojourn in the tropics was already running to its close. For in 1928 he was to return home as professor of physiological chemistry in the University of Amsterdam.

Human nutrition in the tropics, the field of research Jansen entered on his arrival in Java, suited his natural disposition extremely well: he was always most pleased if his results appeared applicable for the immediate benefit of mankind. Indeed his achievements, such as those on the iodine content of potable water in various regions or on the nutritional value of vegetable proteins, were of the highest importance for the health of the indigenous population. But also his greatest achievement of general scientific importance, which gave him world-wide fame, the isolation of pure crystalline vitamin B₁ from huge amounts of rice-polishings, was initiated by his wish to provide an easily applicable weapon in the fight against beriberi.

In the autumn of 1928 Jansen returned to his old environments, the Physiological Laboratory in Amsterdam. After some extension and alteration the building provided sufficient room for provisionally accommodating a laboratory for physiological chemistry as well. The execution of plans for a new building was prevented first by the economic depression of the 'thirties, then by the outbreak of the Second World War. But, nevertheless, Jansen's laboratory soon became a centre of nutrition research in the Netherlands, the more so after he had also become director of the Nederlands Instituut voor Volksvoeding (Netherlands Institute for the Nutrition of the People) which was thereupon incorporated in his laboratory.

His devotion to the improvement of human nutrition was one of the chief causes of the rapid diffusion of the

modern views on nutrition among the Dutch people. Under his direction many young physicians and chemists were trained in nutrition research; his lectures for the students of medicine generated numerous propagandists for better nutritional habits. Thus for many years he was the leading man in the field of nutrition in his country and one of the prominent specialists in the world. He was decorated by the Queen, he was a member of the Royal Netherlands Academy of Sciences and doctor *honoris causa* of the Sorbonne in Paris.

In his happy family life Jansen found a full understanding of the significance of his work; two of his three children (one daughter and two sons) worked for their theses under their father's guidance and received their doctor's certificate from his hands.

In 1954 Jansen reached the age of seventy, which obliged him to resign as professor. This did not mean that his activities suddenly came to an end. But gradually his health declined and he died on October 18, 1962, in his seventy-ninth year. His numerous friends, colleagues and pupils will always remember him as one of the noblest men they have ever met.

H. G. K. WESTENBRINK

Dr. K. W. Luckhurst

KENNETH WILLIAM LUCKHURST, who died on September 19, aged fifty-eight, was for twenty-five years secretary of the Royal Society of Arts and of the Faculty of Royal Designers for Industry. He was educated at the City of London School, and at Cambridge, where he read classics as a scholar of Emmanuel College. The early part of his career was spent in teaching, first at King's School, Canterbury, and then at the University of Edinburgh, where he was lecturer in Greek. In 1935 he was appointed assistant secretary of the Royal Society of Arts, and became secretary two years later. During the Second World War he served in the (Royal) Army Education Corps.

From the beginning of his secretaryship it was apparent that Luckhurst's own wide interests and clear, orderly mind were well suited to the varied and predominantly practical work of the Society for the Encouragement of Arts, Manufactures and Commerce. Holding its traditions in the highest regard, he also recognized how much of its strength derived from adaptability and a continuing sense of usefulness in the existing world. This understanding, and a gift for lucid exposition, informed his major published work, the *History* of the Society, written in collaboration with Derek Hudson to mark its bicentenary in 1954. Luckhurst afterwards expanded the earlier portion of his contributions into a doctoral thesis, which provides a valuable source of reference for the pioneering experiments in agriculture and chemistry fostered by the Society of Arts. Valuable in another connexion were his Cantor Lectures on the Great Exhibition of 1851, given in the year of the Festival of Britain, and his book *The Story of Exhibitions*, in which again he demonstrated the force of the Society's example.

The war years apart, the period of Luckhurst's administration was notably beneficial for the Society: membership and revenues more than doubled, additional premises were acquired, its activities, especially those on behalf of industrial design and commercial education, were given fresh impetus, and its reputation as a disinterested source of knowledge enhanced. In this last regard much depended on Luckhurst's judgment in organizing, each year, a lecture programme both representative of important developments in the sciences and useful arts, and providing interest and enjoyment for widely different audiences. Judicious attention to the details of each meeting enabled a long succession of visiting speakers to give of their best. He himself, pleasant and unhurried whatever his preoccupations, was