

compulsory for all pilgrims attending the great religious festivals, during which cholera had formerly so often been epidemic. Under British rule such a measure would probably have been unacceptable to the people.

In leprosy he started from the knowledge that chaulmoogra oil had some reputation for beneficial action, but was difficult to administer, and he isolated from it sodium gynocardate, which could be given more easily, and proved to be relatively effective. This remained the main basis of treatment until the sulphones were introduced.

Rogers undertook research on several other problems—snake venom, trypanosomiasis of horses, and other subjects—and devoted his inexhaustible energy to raising funds for a School of Tropical Medicine in Calcutta, which was opened in 1916; it remains an active institution and a permanent memorial to him.

He returned from India in 1920, was appointed medical adviser to the Secretary of State for India and physician to the Tropical Diseases Hospital; but the main interest of his later life was the British Empire Leprosy Relief Association, to which he gave large sums of his own well-earned money and time. He was president of the Royal Society of Tropical Medicine and Hygiene during 1933–35.

Rogers received many honours, as the list of his distinctions shows, and his work was well acknowledged in his lifetime, but he remained frugal in his habits, simple and even austere in his private life. He loved walking and cycling, not probably for the opportunities these gave of appreciating the beauty of Nature so much as for the release of energy they involved. Apart from his family he had few interests outside his work, but this work enraptured him, as he admitted in his autobiography, *Happy Toil*. He remained a religious man, but he also retained a critical, caustic mind, enthusiastic and resilient. His knowledge was exact, and he was at home with figures, which he could produce from memory on any public platform. He had immense innate authority, and at the same time a sense of fun, and he did not act the part of a great public figure—he was always himself, a single-minded scientist with the egocentricity which is part of genius. He was a very great man.

He married, in 1914, Una Elsie North, by whom he had three sons, who survive him, and he was ideally happy with her.

CHARLES WILCOCKS

#### Dr. B. P. Eddy

DR. B. P. EDDY died in Cambridge on August 11 at the age of thirty-seven, tragically cutting short a promising career in microbiology and leaving his many friends and colleagues with a deep sense of loss. Brian Pollard Eddy was born in Newcastle upon Tyne and received his education there; first at the Royal Grammar School (1936–43) and then, by virtue of an open scholarship, at King's College, Newcastle. After graduating with first-class honours in botany he was awarded the Pemberton postgraduate studentship. During its tenure for two years he did research on the formation of anthocyanins under Prof. Meirion Thomas.

In 1948 he was invited to fill a vacancy which existed for a bacteriologist at the Low Temperature Research Station, Cambridge, and he joined the staff in November of that year. While attending courses in bacteriology he completed his work on anthocyanins and was awarded the degree of Ph.D. of the University of Durham in 1949.

His work on problems relating to food began with a study of the bacterial reduction of dehydroascorbic acid. He showed that, in the bacterial cell, this depended on a rather specific activating enzyme and a particular type of cytochrome complement. He then turned to the problem of using micro-organisms for the production of new food materials. An attempt was made to produce dried 'mushroom' powder by the deep tank culture of various Basidiomycetes. Though acceptable powders were made, the desirable 'mushroom' flavour was absent. The mass cultivation of algae was also studied. *Dunaliella*, rather than *Chlorella*, was selected because it does not develop a prominent (and indigestible) cell wall and it was established that yields and growth rates were comparable with those of *Chlorella*.

Eddy's interest in the bacterial production of nitrite led him to investigate problems of meat curing. It was with this background that he edited the proceedings of the second International Symposium on Food Microbiology on the subject of "The Microbiology of Fish and Meat Curing Brines" (H.M.S.O., London, 1958). His recent activities in this sphere related to problems arising from the introduction of the new process of vacuum packing sliced bacon.

In the past few years, Eddy was especially interested in the physiology of Gram-negative bacteria. His recent revision of the genus *Aeromonas*, on which he was actively engaged at the time of his death, was probably his best known work. He published more than thirty papers, many jointly with colleagues in the Low Temperature Research Station, who will miss his co-operation. They will also miss his untiring efforts on the committee of the local branch of the Institution of Professional Civil Servants. His principal hobbies were music, of which he was passionately fond, and photography.

He was not strong physically and was for this reason exempt from War service. Temperamentally he was highly strung. However, he was throughout his university and research careers a likeable and sincere colleague, and it is as such that he is remembered.

E. C. BATE-SMITH

#### Mr. C. C. Calder

CHARLES CUMMING CALDER, who died in Aberdeen in April 1962, was one of a long and distinguished line of Scots who held high botanical office in India, and three of his immediate predecessors, Sir George King, Sir David Prain (later director of the Royal Botanic Gardens, Kew) and Colonel A. T. Gage were, like himself, graduates of the University of Aberdeen. Calder was born at Dunphail in Morayshire in December 1884, and was educated at Robert Gordons College, Aberdeen, and later at the University, where he took the degree of B.Sc. both in pure science and in agriculture. After graduation he went for a period of study to Berlin and on his return to Aberdeen he was for a time assistant to Prof. J. W. H. Trail, who was a close friend of King, to whom he had recommended young Prain for appointment to the Indian service. Trail no doubt influenced Calder in accepting the post of curator of the Herbarium at Sibpur in March, 1912, where he remained, apart from a short period on active service in 1918, until his appointment in January, 1923, as superintendent of the Royal Botanic Gardens, Calcutta, conjointly with the directorship of the Indian Botanical Survey. Another

cognate office which he held, and to which he devoted most of his time, was that of quinologist, with responsibility for the care and distribution of the important quinine stocks for the Government of India. In his official duties he was much more concerned with administration than with scientific research, so that his publication record is rather meagre. He wrote short papers on *Oxalis* and *Vernonia*, a brief account of the vegetation of India, and, with Dr. K. P. Biswas, a handbook of the aquatic plants of India and Burma.

Calder retired in 1937, an event probably hastened by his own and his wife's poor health. He returned to Aberdeen where, during the Second World War, he concerned himself with agricultural affairs which mainly involved the direction of labour to farms. For some years before his death he was not well, and he is survived by his widow, a son and a daughter. His elder brother, who predeceased him, was Sir William Moir Calder, an eminent classical scholar, who was professor of Greek in the University of Edinburgh.

GEORGE TAYLOR

## NEWS and VIEWS

### Nobel Prizes:

Chemistry: Dr. M. F. Perutz, F.R.S.,  
and Dr. J. C. Kendrew, F.R.S.

THIS year's Nobel Prize for Chemistry has been awarded jointly to Dr. M. F. Perutz, chairman of the Medical Research Council Laboratory for Molecular Biology, Cambridge, and Dr. J. C. Kendrew, deputy director of the Laboratory and head of the Structure Studies Division. This most welcome announcement follows quickly on that concerning the award of the Nobel Prize for Medicine to another member of the staff of the same Laboratory, Dr. F. H. C. Crick (jointly with Dr. M. H. F. Wilkins and Prof. W. Watson; see *Nature* of October 27, 1962, p. 319). Dr. Perutz was elected a Fellow of the Royal Society in 1954, and Dr. Kendrew in 1960. The award was made for their work on the structures of globular proteins. Both are also readers in the Davy Faraday Laboratory of the Royal Institution, London.

Physics: Prof. L. D. Landau, For.Mem.R.S.

THE Nobel Prize for Physics has been awarded to Prof. L. D. Landau, of the Institute for Physical Problems, Moscow. The award was made for his "pioneering theories for condensed matter, especially liquid helium". Prof. Landau was elected a Foreign Member of the Royal Society in 1960.

### The Gairdner Foundation Awards

THE Gairdner Foundation Award of Merit has been given to Dr. F. H. C. Crick, Medical Research Council Laboratory for Molecular Biology, Cambridge, for his contributions to the solution of the genetic code. This is the first time that the Award, which is accompanied by a prize of 25,000 dollars, has been won since 1959. Four additional awards, with prizes of 5,000 dollars, have also been made to: Dr. A. H. Coons, Harvard Medical School, Boston, for his work on methods of tagging proteins with fluorescent dyes; Dr. C. Crafoord, Karolinska Institute, Stockholm, for his contributions to heart surgery and the heart-lung machine; Dr. H. G. Kunkel, Rockefeller Institute, New York City, for his contributions to the understanding of the formation and behaviour of protein molecules that are found in blood and body tissues; Dr. S. J. Sarnoff, National Institutes of Health, Bethesda, for his contributions to cardiac physiology. Established in 1957 by J. A. Gairdner, of Gairdner and Co., Ltd., Toronto, the Foundation has now conferred its awards and cash prizes totalling 150,000 dollars on 23 scientists.

Director of the Forest Products Research Laboratory:  
Mr. J. Bryan

MR. JOHN BRYAN has been appointed director of the Forest Products Research Laboratory of the Department of Scientific and Industrial Research. Mr. Bryan, at present deputy director of the Laboratory, succeeds Dr. A. C. Copisarow (see *Nature*, 186, 934; 1962), who has been chief technical officer on the staff of the National Economic Development Council on a part-time basis since March, and is now to be released on full-time secondment. Mr. Bryan, who is fifty-nine, has been on the staff of the Forest Products Research Laboratory since 1926 and has been assistant director for eight years. Born and educated in Sheffield, he read civil engineering at the University of Sheffield, and worked in the field of structural steel design for three years before joining the Laboratory. After forming and leading the section working on wood preservation and later leading the section of timber mechanics, Mr. Bryan took charge of all engineering studies at the Laboratory in 1945. For some years he has worked in close co-operation with the Forestry Commission, and is chairman of a joint Department of Scientific and Industrial Research-Forestry Commission Committee on research into home-grown timbers.

Forest Products Division of the F.A.O.:

Dr. N. A. Osara

DR. NILS ARTHUR OSARA, formerly director-general of the Finnish State Forestry Board, has been appointed deputy-director of the Forestry and Forest Products Division of the Food and Agriculture Organization. Dr. Osara replaces Sir Henry Beresford-Feirse, who has returned to the United Kingdom as director-general of the Forestry Commission of Great Britain. Dr. Osara was born in Ikaalinen, Finland, and attended the University of Helsinki, receiving his degree of Doctor of Forestry in 1936. During the period 1924-36, he was also employed by both the University of Helsinki and the Forest Research Institute. A war-time member of the Finnish Government, Dr. Osara was appointed Minister of Supplies and Forestry during 1943-44. From 1938 until 1948 he was professor of forest economics at the Forest Research Institute. He then became director of the Central Forestry Association, 'Tapic', from 1948 until 1952, before going on to head the Finnish State Forestry Board. From 1937 until 1952 he was also associate lecturer on forest policy at the University of Helsinki.