dual obedience to the additive law of colour-matching is of the first importance in visual theory. The bearing on colour specification in the C.I.E. system is of a different kind, and the practical outcome is perhaps less disturbing than might at first appear. If, as seems probable, additivity ambiguities are of no higher order of magnitude than individual differences in colour-matching properties and differences arising from the wide range of practical conditions of colour observation, the extra load on a 'standard observer', who must represent a compromise over all these variations, may not be great. But the problem of the best compromise is changed, and until we have a clearer picture of the additivity difficulties we would be ill-advised to alter the present system. This is so, even though on some points-such as the values of the colour-matching functions in the extreme blue, which are shown by all the new work to be too low in the C.I.E. system-some improvement would be possible now. For colour technology, a change in the C.I.E. system means an upheavalcomputations of new tables, adjustments of all kinds of colour specifications, modification of physical colorimeters, etc.-and it would be unthinkable to make an interim change now with the possibility of a further change a year or two later.

\* Note added in proof. Prof. Wright has made additional measurements which avoid an uncertain interpolation previously involved. He now finds virtually no difference between the unit co-ordinates of the spectral colours obtained by the use of 'blue' primaries 445 and 460 mµ, respectively. The National Physical Laboratory comparisons, since available, also show only slight differences in the unit coordinates, although there appears to be a small change in the 'blue' colour-matching function.

W. S. STILES

## OBITUARIES

## Dr. R. N. Salaman, F.R.S.

In Redeliffe Nathan Salaman, whose death occurred on June 12, aged eighty, the world has lost one of the grand old men of science. He was one of the very few remaining representatives of a world of learning that had not known the spectre of modern specialization, a world where the boundaries between one science and another were scarcely recognized and even those between science and the humanities were comfortably bridged. Dr. Salaman's whole life and work illustrated this.

Born in September 1874, he attended St. Paul's School and became a scholar of Trinity Hall, Cambridge, where, though he was for some unaccountable reason never a Fellow, he was a familiar figure in the combination room for many long years. He began his scientific career in medicine, at the London Hospital, and in 1901 was made director of the Pathology Institute there. But this was the time when the spectacular rediscovery of the Mendelian laws of heredity had given birth to the new science of genetics; Salaman was one of the first in Great Britain to become interested in Mendelism and soon joined William Bateson's original group of British geneticists.

It was characteristic of him that his interest in the Mondelian laws embraced both their direct implication in relation to studies of the origin and relationships of racial groups in man and their indirect use in the improvement of one of man's chief food crops, the potato. In both these fields he published some of the first scientific studies; he was made director of the Potato Virus Research Station at Cambridge on its foundation, and in his work there was the first to make use of a wild relative of the domestic potato, since recognized as the Mexican species Solanum demissum or a derivative, in order to introduce resistance to potato blight, Phytophthora infestans, into cultivated potatoes. To this day S. demissum remains one of the main sources of resistant genes.

Salaman it was who in 1930 recognized the dawn of a new epoch in potato breeding with the Russian discovery of a whole polyploid series of relatives of the potato-some wild, some cultivated-growing in the Andes in South America; he took an active interest in the expedition sent by the British Commonwealth to collect these potatoes and in the foundation of the Commonwealth Potato Collection and the Potato Research Station at Cambridge which resulted from the expedition. Characteristically again, Salaman's imagination was fired by these potatoes just as much for their anthropological as for their genetical and agricultural significance; indeed, his book on the subject, entitled the "History and Social Influence of the Potato", is cited as much by historians and anthropologists as it is by geneticists or plant breeders; for these latter Salaman's researches have thrown light on the origin of the cultivated potato, its early introduction into Europe and its relationship to other, more primitive, potato species. For all readers it serves as an illustration of how an eminent scientist may yet be a master of English literary style—a fact also appreciated by anyone who has attended one of the many lectures that Salaman was so often called upon to deliver.

In 1935 Salaman was elected to fellowship of the Royal Society. In spite of his multifarious activities in the fields of medical pathology, plant genetics, phytopathology and anthropology, he was one of those busy people who always find time for something else. Living as a country gentleman at Barley in Hertfordshire, he was surrounded by a large family, took an active part in local good works, and in the critical years of the Nazi and other persecutions made an energetic contribution to the activities of the Council for the Protection of Science and Learning. In London he was a familiar figure in the rooms of the Athenæum, and there are few men of the present day who can be said to have led a more varied and constructive life, embracing so wide a field of diverse P. S. HUDSON interests and activities.

## Prof. D. B. Blacklock, C.M.G.

THE death occurred on June 10 of Donald Breadalbane Blacklock, emeritus professor of tropical hygiene in the University of Liverpool. He was born on January 7, 1879, at Oban, Argyllshire, and was educated at Fettes College and at the University of Edinburgh, where, after a distinguished career both in studies and in sport (he played cricket for the University and rugby for Edinburgh Wanderers), he graduated M.B., Ch.B. in 1902, proceeding to the degree of M.D. in 1909. In 1911 he was appointed to the Runcorn research laboratory of the Liverpool School of Tropical Medicine, where he worked, first as research assistant and later as director, until 1914, when he was appointed lecturer in parasitology to the Liverpool School.