

the same kind. McKenzie will also be remembered for his work on the Walden inversion, which also led to the investigation by polarimetric methods of the deamination reactions of α -amino-alcohols and the accompanying migration of organic radicals. These topics provided material for a long series of important researches. All his work was characterized by a subtle elegance which led one of his colleagues to comment that "in attacking the refined secrets of the organic molecule he discarded the ponderous weapons of men of grosser mould for the light rapier of the 'chymicall Artist'".

McKenzie also possessed an acute faculty for the appraisal of work besides his own, as witnessed by his early applications of the Grignard reaction. Furthermore, he had the philosophical and cultural outlook characteristic of the scientific men of his generation, an outlook which is so often lacking to-day.

He was an inspiring teacher, and during his twenty-five years in Dundee he trained a steady stream of research students. He took a lively and enduring interest in the personalities and progress of his pupils, an interest which he maintained throughout his years of retirement. His enthusiasm for the progress of organic chemistry never flagged, and he insisted on

reading every new thesis on organic chemical topics originating from the Department.

He is survived by Mrs. McKenzie and their son.
D. H. EVERETT

WE regret to announce the following deaths:

Sir Walter Johnson, C.M.G., director of medical and sanitary services in Nigeria during 1929-36, known for his work on trypanosomiasis and yellow fever, aged sixty-five.

Commissioner David Lamb, C.M.G., LL.D., director of the Salvation Army Emigration Department during 1903-30 and known for his social studies, who frequently attended meetings of the British Association, on July 7, aged eighty-four.

Mr. William Lowson, formerly senior lecturer in analytical chemistry in the University of Leeds, with which he had been associated since 1897, on May 20.

Prof. H. Nagaoka, professor of physics in the University of Tokyo during 1896-1926, on December 10, 1950, aged eighty-five.

Dr. John Rickman, sometime president of the British Psychological Society and for many years editor of the Society's *Journal*, aged sixty.

NEWS and VIEWS

Institute of Navigation: Thurlow Award

DR. E. G. BOWEN, chief of the Division of Radio-physics of the Commonwealth Scientific and Industrial Research Organization, Sydney, has been given the Thurlow Award for 1950 of the Institute of Navigation, of the United States, for his outstanding contribution to scientific navigation during the past year. The Award is a memorial to Colonel Thompson L. Thurlow, formerly chief of the Navigation and Instrument Section of the Equipment Laboratories of the United States Air Force at Wright Field, Dayton, Ohio, who was killed in 1944. Dr. Bowen and his co-workers have developed several new radio navigational aids which are of special importance in aviation. Their distance-measuring equipment (D.M.E.) has been adopted for civil airline use in Australia. For the first time it provides the pilot of an aircraft with an instrument showing his distance from an airport he is approaching. Another system they have developed, multiple-track radar range (M.T.R.), enables aircraft to fly on a series of tracks radiating from an airport. It has aroused considerable interest in aviation circles overseas. Their latest device is a microwave navigational system which provides a radio counterpart to the simple visual method of navigation using beacon lights. It enables the pilot to 'see' and use radio beacons in thick weather in as nearly as possible the same way that ground markers or light signals can be used as navigational aids under conditions of perfect visibility. It offers great promise as a navigational system for use by aircraft where it is uneconomical to provide the elaborate facilities used on main air routes, and for use by ships in confined waters.

Dr. W. J. V. Osterhout

DR. W. J. V. OSTERHOUT, the well-known American botanist, will celebrate his eightieth birthday on August 2. Dr. Osterhout has, since the beginning of the century, established himself as one of the world's

authorities in plant physiology, especially cell physiology, working mainly in the University of California and Harvard University until 1925, when he transferred to the Rockefeller Institute, New York. From there he retired when he reached his seventieth year; a note of appreciation was published in *Nature* at that time (147, Jan. 25, 1941). Dr. Osterhout has trained or inspired workers in the subjects of his choosing in all parts of the world. We should like to join all those in congratulating him on this occasion and to express the hope that he will long continue to exert his powerful influence and encouragement.

Royal Society Research Fellowships

DR. C. E. LUMSDEN, of the University of Aberdeen, has been appointed second Henry Head Research Fellow of the Royal Society from October 1, to work at the Maida Vale Hospital for Nervous Diseases and the National Hospital for Nervous Diseases on disseminated sclerosis. The Council of the Royal Society has appointed Dr. D. R. Wilkie to be the first Locke Research Fellow, from October 1, to work at University College, London, on energy relations in muscular contraction. Frank Spiller Locke, formerly reader in physiology at King's College, London, who died in 1949, left part of his estate to the Royal Society for the endowment of Locke research fellowships in experimental physiology and pharmacology. The Council has also appointed for the first time two Stothert Research Fellows, each for two years in the first instance, from October 1. Mr. J. R. Vane will work at the Nuffield Institute for Medical Research, Oxford, on the mechanism by which histamine produces gastric secretion, and Mr. J. M. Walshe will work at University College Hospital, London, on amino-acid metabolism in liver disease. The Stothert Research Fellowships are established by the bequest to the Royal Society of the residuary estate of Dr. John Henry Stothert, lecturer in pharmacology at University College