paid numerous visits to explosives research centres in the United States and built up a fund of goodwill out of his wide experience and the assistance he was able to give.

In 1945 Dr. Poole returned to England and rejoined the Armament Research Department, first as superintendent of explosives research and later as senior superintendent of chemical research. Much of the work for which he was responsible was in the process of being transferred to the Royal Gunpowder Factory at Waltham Abbey, which had been taken over as a centre for research and development into the chemistry of propellants, explosives and initiators. Dr. F. J. Wilkins was the first chief superintendent of this organization—now known as the Explosives Research and Development Establishment—and Dr. Poole succeeded him in 1946.

In 1949 he was appointed principal director of scientific research (defence) at Headquarters. It was not the kind of job he liked, being too remote from the laboratories, and he told his friends how glad he was "when they got fed up with him" and in 1950 gave him the important post of chief superintendent of armament research at Fort Halstead. He was created C.B.E. in the New Year Honours List of 1953 and was very proud the following November to organize a number of events—including a dinner in the Goldsmiths Hall—to celebrate the golden jubilee of his Establishment.

On the amalgamation of the Armament Research Establishment with the Armament Design Establishment in 1955, Poole became deputy to the director (Mr. Ewen M'Ewen) of the new organization, now known as the Royal Armament Research and Development Establishment. He was given the special responsibility of looking after the research programme. On reaching the age of sixty he remained to act as scientific adviser to the director and finally retired in December 1959.

Retirement was not allowed to sever Poole's activities in the armament field: he retained his interest by acting as a consultant to the Fighting Vehicles Research and Development Establishment and by serving on a number of committees of the War Office Scientific Advisory Council and the Ministry of Aviation Aeronautical Research Council.

Harold Poole was an extremely able and versatile scientist; although trained as a chemist he had a wide understanding of physics and engineering; he possessed considerable inventive capacity and was ever thinking of new things, the abundance of his ideas being sometimes an embarrassment to his colleagues. He was never really interested in administration but was always very approachable and willing to discuss personal problems with his staff. He will be greatly missed, and our deep sympathy goes out to Mrs. Poole and her son, John, in their great loss.

W. B. LITTLER

Dr. W. B. Haines

Dr. William Burgess Haines, who died suddenly last March, joined the Soil Physics Department, Rothamsted Experimental Station, as one of its earliest members, in 1921. He was the first to show, by simple, but elegant, experiments that the moisture content in porous bodies like soil displays hysteresis: the value for any given equilibrium condition is not unique, but depends on whether it is approached by wetting or drying. Haines's treatment focused attention on the geometry of the pore space as essentially cellular, the larger voids being interconnected by necks of effectively smaller diameter; considerations of pressure deficiency under a meniscus, or suction values, showed that the equilibrium moisture content, for a given suction, was higher when water was being withdrawn than when it was being added.

This work, afterwards generalized by the late Dr. R. K. Schofield, who used thermodynamical considerations, led to a clear understanding of water distribution and movement in soil, as affected by weather, cultivations, and vegetation.

In 1927, Haines left Rothamsted on appointment as head of the Soils Division of the Rubber Research Institute of Malaya. Some years later he joined the Dunlop Rubber Company of Malaya, to take charge of its extensive plantation experiments. He was held in a Japanese prisoner-of-war camp throughout the Second World War. On release, he returned to Harpenden and lived in retirement, except for a period of assistance to the Chemistry Department at Rothamsted in the statistical analysis and agronomical assessment of home and overseas manurial experiments.

B. A. KEEN

NEWS and VIEWS

Foreign Members of the Royal Society

The following have been elected foreign members of the Royal Society of London: Prof. E. Fauré-Fremiet, professor of comparative embryology, Collège de France, Paris, distinguished for his contributions to cell physiology and protozoology; Prof. K. J. Freudenberg, formerly professor of chemistry, University of Heidelberg, distinguished for his contributions to many branches of the chemistry of natural products; Prof. S. Wright, professor emeritus of genetics, University of Wisconsin, distinguished for his contributions to quantitative genetics; Prof. H. Yukawa, director of the Research Institute for Fundamental Physics, Kyoto University, distinguished for his contributions to theoretical physics, particularly to the theory of elementary particles.

The Royal Institute of Chemistry: Meldola Medal

Dr. J. Trotter has been awarded the Royal Institute of Chemistry's Meldola Medal for 1962 for his work in the field of chemical crystallography, with special reference to the structures of polynuclear aromatic compounds. Dr. J. Trotter was educated at St. Joseph's College, Dumfries, at St. Modan's High School, Stirling, and at the University of Glasgow. He obtained an honours degree in chemistry in 1954, and was awarded the Joseph

Black Medal, Muirhead Prize, and Mackay Smith Prize. He was appointed to an assistantship in the Chemistry Department, University of Glasgow, and began research under the direction of Prof. J. Monteath Robertson on crystal structure studies of organic molecules, particularly polynuclear aromatic hydrocarbons. In 1957 he completed his work for the Ph.D. degree, and until 1959 he worked as a National Research Council of Canada postdoctoral Fellow with Dr. W. H. Barnes at the laboratories of the Division of Pure Physics, Ottawa. Dr. Trotter returned in 1959, as an Imperial Chemical Industries Research Fellow, to Glasgow, where he continued the studies of hydrocarbon derivatives, and became engaged again in investigations of condensed ring hydrocarbons. In 1960 he was appointed to an assistant professorship in the Department of Chemistry, University of British Columbia, and has, with the encouragement of Prof. C. A. McDowell, been organizing a crystallographic research group. Investigations have included the elucidation of the crystal and molecular structures of a variety of organic molecules, and a study of the stereochemistry of trivalent arsenic, in the course of which the structures of a number of derivatives have been determined.

The Meldola Medal, which is the gift of the Society of Maccabaeans, is normally awarded annually, the award for a particular year being made to the chemist who,