

the late E. K. Muspratt, built the Muspratt Laboratory of Physical Chemistry at the University of Liverpool, and Sir Max was brought up in a scientific atmosphere. He was one of the first of the great modern industrialists to receive a chemical education. He was educated at Clifton College, and from there he went to Zurich, where he received the Swiss Government's diploma in applied chemistry.

I have the most lively recollection of lunching with Sir Max Muspratt and Prof. Donnan twenty-seven years ago, on which occasion Sir Max expressed that extraordinary interest in science, an enthusiasm for research, which never left him.

It is not too much to say that Sir Max Muspratt had a large part in bringing about the growth of the large research establishments in which Great Britain can justly pride itself. In spite of the fact that his latter years were clouded by great personal misfortunes, he was always willing and anxious to discuss any scientific subject, not so much as regards its direct practical bearing, but

in general terms. His death is regretted by a far larger number of people than he would have imagined.

F. A. FREETH.

WE regret to announce the following deaths:

Prof. H. G. Chapman, director of cancer research in the University of Sydney, president of the Linnean Society of New South Wales in 1917-18, on May 25, aged fifty-five years.

Prof. G. C. Comstock, emeritus director of the Washburn Observatory and professor of astronomy in the University of Wisconsin, on May 11, aged seventy-nine years.

Prof. Otto J. Kauffmann, emeritus professor of medicine in the University of Birmingham, on May 15, aged seventy-one years.

Prof. J. Y. Simpson, professor of natural science in New College, Edinburgh, known for his work on the re-interpretation of religion in the light of modern biology, on May 20, aged sixty years.

News and Views

King's Birthday Honours

THE King's birthday honours list includes the names of the following men of science and others associated with scientific work and development. *Baron*: Sir Hugo Hirst, chairman and managing director of the General Electric Company, Ltd. *G.B.E.*: Sir John Reith, Director-General of the British Broadcasting Corporation. *K.B.E.*: Dr. F. G. Banting, Dominion of Canada, discoverer of insulin. *Knights*: Major R. G. Archibald, director of the Wellcome Tropical Research Laboratories, Sudan; Mr. A. W. Flux, honorary vice-president (past president) of the Royal Statistical Society; Mr. Albert Howard, lately agricultural adviser to the States in Central India and Rajputana; Dr. W. H. Moberly, vice-chancellor of the University of Manchester; Dr. C. E. Saunders, lately Dominion cerealist, Dominion of Canada, discoverer of Marquis, Ruby, Reward and Garnet Wheat; Prof. G. Elliot Smith, professor of anatomy in the University of London (University College). *C.B.*: Dr. R. E. Stradling, director of Building and Road Research, Department of Scientific and Industrial Research. *C.M.G.*: Mr. A. C. Bagshawe, secretary of the Department of Agriculture and Lands, Southern Rhodesia; Prof. R. S. Troup, director of the Imperial Forestry Institute and professor of forestry in the University of Oxford, for services to forestry in the Colonies. *C.I.E.*: Mr. F. Canning, chief conservator of forests, United Provinces; Mr. P. E. Aitchison, chief conservator of forests, Bombay Presidency; Mr. W. McRae, director and Imperial mycologist, Imperial Institute of Agricultural Research, Pusa. *C.B.E.*: Dr. W. L. Balls, chief botanist, Egyptian Ministry of Agriculture; Mr. L. St. L. Pendred, editor-in-chief of the *Engineer*; Dr. L. J. Spencer, keeper of minerals, British Museum (Natural History).

O.B.E.: Dr. S. G. Barker, for research services to the Empire Marketing Board; Mr. A. D. Cotton, keeper of the Herbarium and Library, Royal Botanic Gardens, Kew; Miss E. H. Ekins, principal of Studley Horticultural and Agricultural College for Women; Miss Annie Lorrain-Smith, for contributions to mycology and lichenology; Dr. C. Raeburn, assistant director of the Geological Survey Department, Nigeria. *M.B.E.*: Mr. F. G. Harcourt, curator of the Botanical Gardens and Agricultural Superintendent, Dominica, Leeward Islands; Mr. J. D. Kennedy, sylviculturist, Nigeria. *I.S.O.*: Mr. G. E. Greig, lately senior warden of mines, Federated Malay States.

Johann Bauschinger, 1834-93

AMONG those to whom German industry and engineering owed much in the latter part of last century was Johann Bauschinger, who was born on June 11 a century ago. He began life as a school teacher, but became very widely known for his work on the testing of materials. One of a large family of an artisan, Bauschinger was born in Nuremberg and was educated at the Nuremberg Commercial School, and the Polytechnic. He was enabled to proceed to the University of Munich and, after studying mathematics and physics, at the age of twenty-three years he secured a post as teacher in the Commercial School at Fürth, where he spent nine years. He then taught for a time in the Realgymnasium of Munich, and in 1868 was appointed professor of mechanics and graphic statics in the Technical High School there, which henceforth was the scene of his activities. By 1870, he was in possession of a mechanical laboratory where, said Unwin, "Engineering experiments were carried out with a thoroughness and delicate accuracy never previously equalled".