Naturally, the main administration buildings, central and specialist libraries, the press and many working laboratories and institutes are in Madrid itself, comprising a remarkable block of modern well-constructed and expensively furnished buildings. Like the Department of Scientific and Industrial Research in Great Britain, the Higher Council provides funds for research to those who have graduated from a university, and annual prizes are given for outstanding work both in letters and in science. It is also the function of the Higher Council to advise the Minister of Education as to the award of any special prizes or life pensions for outstandingly meritorious work. One of Europe's most interesting of modern churches is the Church of the Holy Ghost, built by the Higher Council for Scientific Research in the Council Enclosure, to provide a spiritual home for all research workers, both Spanish and foreign. The Council also provides chapels in the neighbouring buildings, so that all teachers and students can make use of these during their working period.

Another interesting phase of the Higher Council's activities is to be found in the School of Ancillary Studies, in which a large staff is trained in such a way that "without entering deeply into theories, by means of a careful and practical apprenticeship they may become valuable helpers for scientific workers". British universities are in great need of the services of really skilled technicians such as glass-blowers, fine mechanics and experts in electronic circuits. It is no easy matter to obtain such valuable members of the scientific staff; and the steps which the Higher Council has taken in respect to this matter are well worth serious attention.

The foreword to the law founding the Higher Council expresses most clearly the intentions and ideas that led to its conception. "The state of divorce and discordance existing between speculative and experimental science must be terminated and the tree of science must be encouraged to develop harmoniously as a whole by avoiding the monstrous growth of some branches while others wither and die. A strong counter-weight must be found for the exaggerated and isolated specialization so prevalent in our time and the sciences must be made to regain their old sociability." A noble experiment: may it succeed.

ERIC K. RIDEAL

OBITUARIES

Dr. H. R. Mill

HUGH ROBERT MILL, distinguished geographer, meteorologist and author, died at Dormans Park, East Grinstead, on April 5, at the age of eighty-eight. He had an outstanding personality. He devoted his life mainly to the study of geography, especially of those aspects dealing with oceanography, the study of lakes, the flow of rivers, the Antarctic and rainfall. Born at Thurso, Caithness, in 1861, he became doctor of science of the University of Edinburgh, honorary doctor of laws of St. Andrews, fellow of the Royal Society of Edinburgh, honorary member of the Institution of Water Engineers and fellow or honorary member of a large number of British and foreign scientific societies.

After specializing in chemistry and physics at the University of Edinburgh, Mill became chemist and physicist in 1884 to the newly established Scottish Marine Station at Granton on the Firth of Forth.

This work renewed an early interest in geography, and he was appointed lecturer in physiography in the Heriot Watt College, Edinburgh. In 1891 he published a standard text-book on geography, introducing a more systematic and scientific treatment, with the attractive title "The Realm of Nature".

From 1892 until 1900 he was librarian to the Royal Geographical Society, where he found time to make the first systematic survey of the depths of English lakes. He became recorder of Section E (Geography) of the British Association (1893-99) and president in 1901, and attained an international reputation as a geographer. On the occasion of the Society's centenary he prepared, at the request of the Council, "The Record of the Royal Geographical Society, 1830-1930". In 1915 he received the Victoria Research Medal of the Society and was vice-president during 1927-31.

In 1901 Dr. Mill, to quote his own words, seized a proffered opportunity "to devote the rest of my working life to one small portion of the great problem of my earlier dreams: the detailed investigations of the control of rainfall distribution by the forms of the land". He became director of the British Rainfall Organization at 62 Camden Square, London, and editor of "British Rainfall" and *Symons's Meteorological Magazine*, until he retired in 1919, when the Organization was incorporated in the Meteorological Office. In 1910 he presented the whole of the accumulated rainfall records and property of the British Rainfall Organisation, acquired at his own expense, to be held in trust for the nation. During this period he applied his geographical knowledge and his experience to open up new lines of research, especially in map studies of rainfall, thereby advancing the scientific study of the rainfall distributions over Great Britain. He became the authority on British rainfall and was consulted by government departments and other bodies. He was honorary secretary of the Royal Meteorological Society during 1902-6 and president in 1907-8. The Society awarded him the Symons Memorial Medal in 1918 and the newly instituted Hugh Robert Mill Medal and Prize for research in rainfall just before his death.

Although widely travelled, Mill had never entered Antarctic regions. Throughout his life, however, he maintained personal friendships with the explorers and acquired an expert knowledge of Antarctic exploration. He wrote "The Siege of the South Pole" in 1905 and "The Life of Sir Ernest Shackleton" in 1923. Illustrative of his relationships with these explorers is a telegram to Dr. Mill from Shackleton in September 1916 from Punta Arenas on his return from the far South: "My grateful thanks for friendly article about expedition and for your consistent belief in me your friend Shackleton".

Both in his lectures and writings, Mill had a happy and fascinating manner of presenting and interpreting facts. He was a source of inspiration to many in the various spheres of work which occupied his full life. In spite of eyesight already failing in 1915, he maintained throughout his life a hopeful outlook and lively interest in all aspects of "the Realm of Nature".

J. GLASSPOOLE

Mr. J. B. Scrivenor, I.S.O.

JOHN BROOKE SCRIVENOR, the first geologist to start systematic geological mapping in Malaya, died peacefully in his sleep at his home in Bedford on April 21, at the age of seventy-three.