

## Appendix C

### Biographical Notes of Members of the Executive Council

*President*: Professor F. JOLIOT.

Frederic Joliot was born at Paris in 1900. In 1923 he completed his studies in engineering at the School of Physics and Chemistry of the city of Paris. After his period of military service (1925), he became assistant to Mme. Curie at the Institut de Radium. He took his doctorate in physical sciences in 1930, and became assistant in the faculty of sciences at the University of Paris, in 1932, and Maitre des Recherches at the National Centre for Scientific Research (CNRS) in 1933. In 1935, when he was Director of Studies at the Sorbonne, he was awarded the Nobel Prize for Chemistry jointly with Irene Joliot-Curie, whom he had married in 1926. In 1937 he was elected Professor at the College de France, and in 1943 a member of the Academy of Sciences and of the Academy of Medicine. Meanwhile, he was engaged in the underground fight for the liberation of his country from German occupation. Immediately after the liberation of Paris he was made Director of the National Centre of Scientific Research, where he remained until, in 1946, he became High Commissioner for Atomic Energy and hence, France's delegate to the Atomic Energy Commission of the United Nations in New York. He is member of numerous foreign academies and societies, including the Royal Society of London.

*Vice-President*: Professor J. D. BERNAL.

Professor Bernal was born in Ireland in 1901. He was educated mainly in England and studied physics in Cambridge. His earliest researches were done at the Davy-Faraday Laboratory under Sir William Bragg. Afterwards he lectured in Cambridge, becoming assistant Director of Research in Crystallography. In 1937 he became a Fellow of the Royal Society and the same year was elected to the Chair of Physics at Birkbeck College. In 1945 he was awarded the Royal Medal of the Royal Society. His chief scientific work has been concerned with the structure of both simple and complex substances. Starting with carbon, metals and water, he has gone on to vitamins, hormones, proteins and viruses. He has published many papers on these researches. During the war he worked for the Ministry of Home Security on protection against bomb damage and later gave advice to the Air Ministry and to Combined Operations. He has now returned to peacetime work at Birkbeck, and has also become Chairman of the Scientific Advisory Committee of the Ministry of Works, concerned with the Housing programme. He has always taken a lively interest in the social implications of science, and has been an active supporter of the A.Sc.W. of which he is President. He has also published two books, "The World, the Flesh, and the Devil," and "The Social Function of Science."

*Joint Hon. Secretary*: Dr. P. BONET-MAURY.

Born in 1910, he is a Doctor in Physical Sciences of the University of Paris, and Maitre des Recherches at the Curie Laboratory of the Institute of Radium. He is also head of the Physical Laboratory at the Alfred Fournier Institute (Chenotherapeutic service). His researches have been in radioactivity and in the applications of radioactivity to biological questions.

*Joint Hon. Secretary*: Dr. R. C. MURRAY.

Born in 1911 in London, he took a Ph.D. in Chemistry in 1934. He has spent ten years as a research chemist in industry, mostly concerned with the chemistry of phosphorus. He is now Scientific Officer at the Royal Aircraft Establishment, Farnborough. He joined the A.Sc.W. in 1941, and was for some time Secretary of the Birmingham General Branch. He is now Secretary of the International Relations Committee.

*Acting Hon. Treasurer*: Dr. W. A. WOOSTER.

Born in 1903 in London, he studied at Cambridge and did research work in nuclear physics under the late Lord Rutherford from 1921-27. His Ph.D. thesis was on the X and B ray types of disintegration. In 1928 he was appointed a demonstrator in the Department of

Mineralogy at Cambridge, and organized the teaching of crystal physics, both theoretical and experimental. During this time he carried out research in X-ray crystallography, and developed suitable instruments for the work. In 1935 a lectureship was created in the Department of Mineralogy and Petrology for him, and he has continued the teaching of crystallography, including the structural, physical and chemical properties of crystals.

In 1935 he was elected Hon. General Secretary of the A.Sc.W., a post to which he has been elected annually ever since. During the late war his research was mainly concerned with diamonds and quartz-materials of importance for industry and communications. In 1935 he was among those invited from Great Britain to attend the celebrations in Moscow and Leningrad of the 220th Anniversary of the foundation of the Soviet Academy of Sciences.

*Ordinary Member :* Dr. SAN-TSIANG TSIEN.

Dr. Tsien graduated B.S. at the National University Tsing-Hua, Peiping, in 1936. He was a research assistant in physics at the National Academy of Peiping in 1936-37, and then became research fellow of the Sino-French cultural commission for three years, until 1940, in which year he was awarded the degree of Docteur-es Sciences at Paris. In 1943 he became a Charge de Recherches at the National Centre of Scientific Research (CNRS) a post which he still occupies, working at the Pierre Curie Laboratory of the Institut du Radium. He is an honorary corresponding member of the National Academy of Peiping.

*Regional Representative, E. Europe :* Professor J. BELEHRADEK.

Professor Belehraddek graduated in medicine at the Caroline University of Prague in 1922, and was then assistant in the physiological and biological departments, first of the Caroline University, then at the University of Louvain, and then at Brno. He worked in King's College, London, during the academic year 1925-26. In 1929 he became Professor of General Biology at Brno, and in 1935, Professor in the same subject at the Caroline University in Prague. In 1937 he became Dean of the Medical Faculty, and for the academic year 1945-46 he was Rector of the University. In addition to numerous papers on biological subjects, he has written a textbook of general biology, "Man in Numbers" (in Czech), "Temperature and Living Matter" (in English, 1934). He is a Socialist M.P. in the Czech Parliament.

*Regional Representative, W. Europe :* Professor L. ROSENFELD.

Born in 1904, Professor Rosenfeld graduated Docteur-es-Sciences at the University of Liege in 1926, and became lecturer at the same place in 1930, and Professor of Physics at Liege in 1937. In 1940 he was appointed Professor of Liege at the University of Utrecht. He has recently been appointed to the Chair of Theoretical Physics at Manchester University. His scientific work has been mainly concerned with the quantum theory of optical phenomena, and nuclear physics. He is also keenly interested in the history of science. He is author of two books on scientific subjects, and of an essay on Niels Bohr. He is a Vice-President of the recently formed Association of Netherland Research Workers.

*Regional Representative, Far East :* Professor CHANG-WANG T'U.

Born in 1907, he graduated at the Imperial College of Science and Technology, London University, where he took his M.Sc. and the Diploma of the Imperial College. He is Professor of Meteorology at the National Central University, Nanking, and Research Fellow, Research Institute of Meteorology, Academia Sinica, Nanking. He is also a member of the Executive Council of the Meteorological and Geographical Societies of China, and of the National Science Society of China. He is the Hon. Secretary-General of the Chinese Association of Scientific Workers, of which he was a foundation member.

*Regional Representative, Middle East and India :* Professor M. N. SAHA.

Professor Saha has been the moving spirit in the establishment of the Indian Association of Scientific Workers, which occurred in Calcutta at the end of 1946. The outstanding points in his scientific career are as follows :—He was Khaira Professor of Physics, Calcutta University, 1922-23 ; Professor and Head of the Department of Physics, Allahabad University,

1923-38; Palit Professor and Head of the Department of Physics, Calcutta University, since 1938. He was President of the Indian Science Congress in 1934, and President of the National Institute of Sciences of India, 1937-38. President of the Royal Asiatic Society of Bengal, 1945-46. He is a member of the National Planning Committee of the Indian National Congress, and of the Planning Advisory Board of the Government of India. He was elected a Fellow of the Royal Society of London in 1927.

Professor Saha has laid the foundation of the modern theory of ionization at high temperatures. This has provided the bases for the contemporary theory of the constitution of the stars.

*Regional Representative, British Commonwealth:* NORMAN VEALL.

Born in Northumberland, England, in 1919. After some years work in the chemical industry he graduated in physics in London University, in 1943. During the war he worked for five years in the Atomic Energy projects at Cambridge, England, and in Canada. Whilst in Canada he became a member of the Canadian A.Sc.W. when it was formed in 1944, was a member of its first National Executive Committee, and also Chairman of its International Relations Committee. He is now in England working on the use of artificial radio-elements as tracers in medical research.

*Regional Representative, U.S.A. and S. America:* Dr. P. M. DOTY.

Dr. Doty was born in 1920 and graduated with M.A. and Ph.D. from Columbia University. Whilst doing war research in the States he became University Fellow at Columbia University, then Research Associate and Instructor at the Polytechnic Institute of Brooklyn. At the end of the war he became Assistant Professor of Physical Chemistry at Brooklyn, and later accepted a similar position at Notre Dame University, Indiana, from which he is now on leave of absence for one year as Rockefeller Fellow. His main field of scientific work has been in the chemistry and physics of polymers, and he is editor of the "Journal of Polymer Science."

*Secretary-General designate:* J. G. CROWTHER.

Mr. Crowther was born in Yorkshire, England, in 1899. He is a scientific writer and journalist, and has published fourteen books about science. These include "The Social Relations of Science," "Soviet Science," "Famous American Men of Science" and "British Scientists of the 19th Century." He has lectured on these subjects in many countries. He was Director of the Science Department of the British Council from 1941-46. He was Secretary of the Science Commission of the Conference of Allied Ministers of Education, and is Hon. Secretary of the Society for Visiting Scientists in London.

He joined the British Association of Scientific Workers in 1927 and is Chairman of its International Relations Committee.