

THE VICE-PRESIDENTS.**LEADERS OF SCIENCE.**

There are five Vice-Presidents of the society, but of them three, in Professor A. Liversidge, Professor Sir William H. Bragg, and Professor Sir David Orme Masson, who were Presidents of the Association in the years 1898, 1909, and 1911 respectively, are now in England. Sir T. W. Edgeworth David, K.B.E., C.M.G., D.S.O., B.A., Hon. D.Sc., F.R.S., F.G.S., Professor of Geology at the Sydney University, who was President of the Dunedin meeting of the association in 1904, and also President of the Melbourne meeting of 1913, will attend this year's meeting. The other Vice-President is Sir W. Baldwin Spencer, K.C.M.G., Litt.D., M.A. M.Sc., F.F.S., Emeritus Professor of Biology at the Melbourne University, and Director of the National Museum, Melbourne, who was President of the Hobart meeting in 1921.

SIR EDGEWORTH DAVID.

Sir Edgeworth David, who has held the professorship of geology and physical geography at the Sydney University since 1891, is a graduate of New College, Oxford, and is recognised as the greatest living authority on Australian geology. He was formerly a member of the geological survey of New South Wales, and it was he who practically discovered and surveyed the magnificent Maitland coal measures, and by his prompt action saved immense coal deposits from being alienated from the Crown. He is famed for his geological work in New South Wales, and for his researches on the origin of coral stalls in the South Seas. Further recognition came his way for his signal successes in the antarctic as chief of the scientific staff in Shackleton's expedition in 1907-9. He was in charge of the climbing party which made the first ascent of Mount Erebus, and he also led the party which made the discovery of the south magnetic pole on January 16, 1909. He represented the Commonwealth at the International Geological Congress in Mexico in 1906. His work has secured him recognition from every leading nation in the world. Sir Edgeworth also did his "bit" in the war, leaving Sydney in February, 1916, with the Australian Mining Corps, and when the Armistice came he was occupying an extremely high position at Gen. Sir Douglas Haig's headquarters, being the Chief Geologist for the whole of the British armies, his great work in the field consisting of the practical application of geology to modern warfare.

SIR BALDWIN SPENCER.

Professor Sir Walter Baldwin Spencer, K.C.M.G., is best known in this State for his works on Central Australia and the Northern Territory, and also as the Chairman of the Victorian Football Association. Sir Walter is a graduate of Exeter College, Oxford, and assumed his position of Professor of Biology at the Melbourne University in 1887, retaining the position until 1920, when he became Emeritus Professor on the occasion of taking over his present duties as Director of the National Museum. He has been honoured by numerous Continental countries as well as by Great Britain, U.S.A., and Australia, for his work in connection with biology, natural history, and zoology. He was a member of the Horn scientific expedition to Central Australia in 1894, and the author of the four-volume reports issued by that expedition. In conjunction with the late F. J. Gillen, he conducted an ethnological expedition across Australia to the Gulf of Carpentaria in 1902, their account of this and previous work being published in "The Native Tribes of Central Australia," "The Northern Tribes of Central Australia," and "Across Australia." When the Northern Territory was taken over by the Commonwealth, he was requested by the Federal Government to act for one year (1912) as Special Commissioner and Chief Protector of Aborigines, and it was as a result of that appointment that he was able to furnish a report to the Government containing valuable suggestions with regard to the future treatment of the aborigines. Sir Baldwin is the author of numerous memoirs dealing with the fauna, natural history, and ethnology of Australia.

THE EXECUTIVE OFFICERS.**PERMANENT SECRETARY.**

The permanent secretary of the conference is Mr. E. C. Andrews, B.A. Mr. Andrews is a graduate of the Sydney University, and has been Government Geologist of New South Wales since 1920, previous to which he was the senior geological surveyor to the New South Wales Department of Mines. He has long been recognised as an authority on physiographic problems. He is the author of several papers in scientific journals on physiography and general mining in eastern Australia, and of reports on economic geology, notably on Cobarr and Canelago fields. A series of papers by him also vindicated Darwin's theory of coral reef origin. He also has to his credit an important treatise on notes on the structure of Australia. He was elected to the secretaryship of the Science Congress in 1921.

GENERAL TREASURER.

Mr. David Carment, F.I.A., F.F.A., is the general treasurer of the conference. He has been for many years the actuary of the A.M.P. Society, Sydney.

THE S.A. SECRETARY.

Mr. L. Keith Ward, the South Australian Government Geologist and Director of Mines, has been lately associated with Mr. Vilhjalmur Stefansson, the noted Canadian explorer, in connection with the latter's expedition to Central Australia. He also accompanied His Excellency Sir Tom Bridges on a trip to the same localities just shortly after His Excellency's arrival in this State. Mr. Ward is the South Australian secretary of the conference, and on his shoulders has fallen the bulk of the preparatory work. He is a graduate B.A., B.E., of the Sydney University, and his first years after his university career were spent with the Broken Hill Proprietary Company. From 1903-7 he was lecturer at the Kalgoolie School of Mines, and then accepted the position of Assistant Government Geologist and Inspector of Mines in Tasmania. Remaining there until 1911 he, in that year, accepted his present position.

THE S.A. TREASURER.

The South Australian treasurer of the conference is Mr. Bertie S. Roach, the well-known inspector of the Education Department, and editor of the Children's Hour. In addition, Mr. Roach is a member of the Board of Governors of the Public Library, Art Gallery, and Museum, a member of the Council of the Institutes' Association, and treasurer of the Royal Society. He is a noted authority on Australian history.

THE SECTIONAL LEADERS.**GIANTS OF SCIENCE WORLD.****PROFESSOR A. C. D. RIVETT.**

Professor A. C. D. Rivett, of Melbourne University, who will be in charge of the deliberations of the chemistry section, has Mr. E. F. Gryst, of Semaphore, to assist him as President of the pharmacy subsection, and Mr. G. D. Shaw, of the S.A. Department of Chemistry, as secretary. Professor Rivett was the Victorian Rhodes scholar of 1906. He was then at Queen's College, Melbourne University, and graduated B.Sc. He went under his scholarship to Lincoln College, Oxford University, where he is in charge of the 1909, B.Sc. in 1910, and M.A. in 1913. He secured his D.Sc. degree in 1916. He was general organizing secretary for the 1914 visit of the British Advancement of Science Association in 1914. During the war period he was registrar of First No. 5 Australian General Hospital (1915), and later of Noll Hospital (1916). At the present time he is associate Professor of Chemistry at Melbourne University.

PROFESSOR W. E. AGAR.

Professor W. E. Agar, of Melbourne University, will preside over the zoology section. Dr. O. W. Tiegs, of Adelaide University, will be his assistant as secretary. He is a graduate with first-class honours of King's College, Cambridge, and a D.Sc. of Glasgow University. He has been Professor of Zoology at Melbourne University since 1920, coming there from Glasgow University, where he was assistant to Professor Graham Kerr. He was made F.R.S. in 1921, and served through the war as Adjutant of the 52nd Regiment of Infantry at base depot, Egypt.

PROFESSOR H. C. RICHARDS.

The geology and mineralogy section will be under the charge of Professor Henry C. Richards, who has been Professor of Geology and Mineralogy at the Queensland University since January 1, 1919. He will have Mr. C. T. Madigan, of Adelaide University, as secretary. Professor Richards is a Victorian, who graduated in science in 1906, gaining his Doctorate of Science in 1915. From 1910-11 he was lecturer in charge of the chemistry and mining department of the Brisbane Technical College. From 1911-18 he was lecturer in charge of the department of geology and mineralogy at the Brisbane University.

CAPT. J. KING DAVIS.

The geography and history section will have as its President Capt. J. King Davis, R.A.N., and Mr. W. Oldham and Mr. R. J. M. Clucas, of Adelaide University, as secretaries. Capt. Davis was Director of Navigation in the Commonwealth in 1920. He commanded the Nimrod with the Shackleton expedition to the antarctic, and was second in command in the Mawson expedition of 1911, being in charge of the oceanographical and hydrographical work. He also commanded the relief expedition which rescued the survivors of the Shackleton expedition marooned at Ross Island in 1916. He was engaged in transport and other naval work in the war, and subsequently was Australian Naval Transport Officer in connection with the demobilization of the A.I.F.

PROFESSOR H. E. WHITFIELD.

Professor H. E. Whitfield, of Perth University, where he is in charge of the mining and engineering departments will command the activities of the engineering and architecture section of the conference. Mr. E. W. Clarke, of Adelaide University, is his secretary. Professor Whitfield is a graduate B.A., B.E., of Sydney University, and practised as a mining engineer on the Western Australian gold fields from 1902-12. He has held his present position since that latter date. During the war period he worked under the British Ministry of Munitions, first as an inspector of munitions in U.S.A., and later as a technical adviser in the Explosives Supply Department in London.

Professor of Anatomy at the University College, London. Dr. Smith is a graduate of the Sydney University, where for a time he was demonstrating anatomy. He went to England in 1896, and was demonstrator in anatomy at Cambridge University from 1899-1904. For a number of years he was professor in anatomy at the Egyptian School of Medi-



SIR EDGEWORTH DAVID,
eminent Geologist, and a Vice-President of the Congress.

DR. J. S. PURDY.

Dr. J. S. Purdy, of Sydney, who will direct the operations of the sanitary science and hygiene department, with the assistance of Mr. S. C. Stenning as secretary, is an M.D., C.M., Aberdeen, and D.P.H. Cambridge, and in addition is a Fellow of the Royal Society of Edinburgh and a Fellow of the Royal Sanitary Institute. For 24 years he was medical officer of the Egyptian quarantine service and since 1913 he has been metropolitan medical officer of health and city health officer of Sydney. During the war he was special sanitary officer with the Australian troops at Cairo, commanded the 10th Australian Field Ambulance, and later the 3rd Australian General Hospital. He was elected the President of the Health Society of N.S.W. in 1921. He is well known for his pioneering work in connection with the role of insects as carriers of disease.

MR. J. NANGLE.

The section devoted to mental science and education will be presided over by Mr. J. Nangle, of Sydney, with Dr. A. J. Schulz, of Adelaide University, as secretary. Mr. Nangle, who is an architect by profession, is a Fellow of the Senate of the Sydney University, Fellow of the Royal Astronomical Society, London, Associate of the Australian Institute of Engineers, and a Fellow of the Institute of Architects of New South Wales. He was President of the Royal Society, New South Wales, in 1922, and has been superintendent of technical training in that State since 1914, and was director of vocational training for soldiers.

PROFESSOR R. D. WATT.

Professor R. D. Watt, M.A., B.Sc., F.C.S., Professor of Agriculture at the Sydney University since 1910, and a mem-



SIR BALDWIN SPENCER,
Director of the National Museum, Melbourne, and a Vice-President of the Congress.

ber of the Advisory Council of the Commonwealth Institute of Science and Industry, will preside over the deliberations of the section of Agriculture and forestry. Professor Watt is a student of the Glasgow University, and of the West of England Agricultural College, whence he graduated with the national diploma in agriculture, with honours, and in dairying. He was the Carnegie Research scholar for Rothamstead, England, and was for a time assistant chemist to the Transvaal Department of Agriculture. He will have as secretary Mr. W. J. Spafford, of the Department of Agriculture.

A LONDON VISITOR.

A distinguished visitor to the conference will be Professor Grafton Elliott Smith, M.A., Cantab.; M.D., Sydney; F.R.S.,

His next position was Professor of Anatomy at the Manchester University, which position he occupied until 1919, since when he has occupied his present position. Dr. Smith's chief work has been the study of comparative anatomy and morphology of the brain, and has solved many of the problems surrounding those matters. He has contributed extensively to the study of Egyptian anthropology and the art of mummification, and made many interesting observations in anthropology following on the results of his explorations along the Nile. He founded the anatomical museum in Cairo. His F.R.S. was awarded in 1907 for his notable scientific work, especially on the structure of the brain. In 1914 he was chosen as a vice-president of the Royal Society.

PROFESSOR D. M. J. SOMERVILLE.

Professor D. M. J. Somerville, the President of the astronomy, mathematics, and physics section, is attached to the staff of the Wellington University, New Zealand. He is an expert mathematician, and one of the greatest living authorities on non-Euclidean geometry. For a number of years he was lecturer in mathematics and applied mathematics at the St. Andrew's University, Scotland. He is the author of several publications on scientific subjects.

MR. E. F. GRYST.

Mr. E. F. Gryst, of Semaphore, is the President of the Pharmaceutical subsection of the chemistry section. He is the President of the South Australian Pharmaceutical Society. Always taking a keen interest in students, Mr. Gryst has for a number of years acted as an examiner for the final course. When Mr. Hendry retired as the lecturer to final students, Mr. Gryst, at great personal sacrifice, undertook the work himself, and he now has 23 students under his charge.

MR. H. D. SKINNER.

Mr. H. D. Skinner, the President of the ethnology and anthropology section, is associated with the University Museum at Otago, New Zealand, and is a great authority on the life history of the Maoris, of whom he has made a special study. His Presidential address on the Maoris will be one of the most interesting of the conference.

PROFESSOR D. B. COPELAND.

Professor D. B. Copeland, the President of the social and statistical science section, is Professor of Economics at the Brisbane University, where he succeeded Dr. Heaton. For many years he has been prominently connected with the activities of the Workers' Educational Association.

DR. S. DODD.

The President of the veterinary section is Dr. S. Dodd, who is recognised as being in the forefront of veterinary pathologists. He was made a member of the Royal College of Veterinary Surgeons in 1902, and received the fellowship of the college in 1907. For a number of years he worked with Dr. Thielier in South Africa in connection with stock diseases. He held the position of principal veterinary officer and bacteriologist in the Department of Agriculture in Queensland for a number of years, and during that time he conducted research into animal diseases at the Yerongpilly Research Station. Relinquishing that position he was for a time a lecturer at the veterinary school at the Melbourne University, and during his tenure of that office secured his degree of Doctor of Veterinary Science. He joined the staff of the veterinary school at the Sydney University in 1909. He has made several valuable contributions to the knowledge of stock diseases in Australia.

MR. L. RODWAY.

Mr. L. Rodway, of Tasmania, is the President of the botany section. For many years he was honorary botanist to the Tasmanian Government. During that time he made a special study of Tasmanian flora, particularly the eucalypt. For a considerable time he has been President of the Royal Society of Tasmania. He was Chairman of the Tasmanian local committee which made arrangements for the Science Congress meeting at Hobart in 1921, and also represented the Royal Society of Tasmania as a delegate to the last congress. For the past few years Mr. Rodway has been giving lectures at the Tasmanian University in conjunction with Professor Flynn.

CAPT. PITT-RIVERS.

Captain George Henry Lane-Fox Pitt-Rivers, F.R.A.T., is the eldest son of Mr. A. E. Lane-Fox Pitt-Rivers, Rushmore, Wilts (England). His mother's father was the Right Hon. Lord Henry Thyne. Captain Pitt-Rivers was born on May 22, 1890. His grandfather was the late Lieut.-General Pitt-Rivers, F.R.S., anthropologist, founder of the Pitt-Rivers Museum at the Oxford University. Educated at Eton, Capt. Pitt-Rivers served in the British Army from 1910 to 1919. He took part in the war from 1914 to 1918 and was wounded. After having retired from the army, in which he rose to the rank of captain in the Royal Dragoons, he became a Fellow Commoner