

DR. L. H. N. COOPER, senior principal scientific officer, Plymouth Laboratory of the Marine Biological Association of the United Kingdom, distinguished for his studies of the chemistry and physics of sea-water, of nutrient cycles in the sea and of factors influencing productivity.

DR. E. J. DENTON, principal scientific officer, Plymouth Laboratory of the Marine Biological Association of the United Kingdom, distinguished for his contributions to the physiology of marine animals, in particular of their visual processes and maintenance of buoyancy.

PROF. D. D. ELEY, professor of physical chemistry in the University of Nottingham, distinguished for his contributions to our understanding of heterogeneous catalysis, polymerization, the kinetics of enzyme reactions and the properties of organic semi-conductors.

DR. L. FOWDEN, reader in plant chemistry in University College, London, distinguished for his discovery and identification of new amino-acids in plants and for contributions to the elucidation of their significance.

DR. P. H. FOWLER, reader in physics in the University of Bristol, distinguished for his researches in high-energy physics and cosmic radiation, and for his contributions to the development of the emulsion technique.

PROF. P. C. C. GARNHAM, professor of medical protozoology and head of the Department of Parasitology in the London School of Hygiene and Tropical Medicine, University of London, distinguished for his contributions to parasitology and in particular for his original researches on parasitic protozoa.

PROF. T. GOLD, professor and chairman of the Department of Astronomy in Cornell University, Ithaca, New York, and director of the Center of Radiophysics and Space Research, Puerto Rico, distinguished for his theoretical and experimental contributions to astronomy, and for his contributions to our understanding of the Earth's magnetosphere.

DR. J. L. HARLEY, reader in plant nutrition at the Department of Agriculture in the University of Oxford, distinguished for his research into aspects of the physiology of mycorrhiza.

DR. W. HAYES, director, Microbial Genetics Research Unit, Medical Research Council, Hammersmith Hospital, Postgraduate Medical School, distinguished for his contributions to bacterial genetics, especially by his discovery of the nature of sexuality in bacteria.

DR. J. R. HOLT, reader in physics in the University of Liverpool, distinguished for his work in nuclear physics,

especially that on deuteron stripping, and also in high-energy physics.

SIR WILLIAM HUDSON, commissioner, Snowy Mountains Hydro-Electric Authority, Cooma, Australia, distinguished for his contributions to development and design in hydraulic and hydroelectric engineering, and for his leadership in the execution of major projects.

PROF. D. G. KENDALL, professor of mathematical statistics and director of the Statistical Laboratory, University of Cambridge. Distinguished for his contributions to the mathematical theories of probability, statistics, and modern functional and operational analysis.

PROF. G. W. KENNER, Heath Harrison professor of organic chemistry in the University of Liverpool, distinguished for his work on the organic chemistry of natural products, including co-enzyme and other co-enzymes, polypeptides and porphyrins.

MR. H. MORROGH, director, British Cast Iron Research Association, Birmingham, distinguished for his work on the microstructure and solidification of cast iron and for the development of ductile cast iron.

PROF. R. R. PORTER, Pfizer professor of immunology in St. Mary's Hospital Medical School, University of London, distinguished as a biochemist, and particularly for his work on proteolytic enzymes and on antibodies.

DR. A. ROBERTSON, senior principal scientific officer, Agricultural Research Council Unit of Animal Genetics, Edinburgh, distinguished for his mathematical and experimental research in quantitative genetics and animal breeding.

PROF. P. A. SHEPPARD, professor of meteorology at the Imperial College of Science and Technology, University of London, distinguished for his researches in dynamical and physical meteorology and especially for his contributions to theory of the general circulation of the atmosphere.

PROF. F. H. STEWART, regius professor of geology in the University of Edinburgh, distinguished for his contributions to petrogenesis and especially for his investigations of the mineralogy and geochemistry of the saline evaporite deposits.

PROF. A. D. WALSH, Baxter professor of chemistry in Queen's College (Dundee), University of St. Andrews, distinguished for his work on molecular spectroscopy, and the structure and shape of molecules in different states of excitation, and on the kinetics of gaseous reactions.

NEWS and VIEWS

Prof. A. A. Benedetti-Pichler

PROF. ANTON A. BENEDETTI-PICHLER celebrates his seventieth birthday on April 1, 1964. Born in Vienna, Austria, he received his degrees at the Technische Hochschule, Graz, where he worked for many years with the pioneer in microchemistry, Dr. Friedrich Emich. From 1929 on he promoted his favourite field of microanalysis in the United States, especially at New York University, Queens College (N.Y.) and Brooklyn College. Through theoretical considerations and experimentation he extended successfully the limits of microchemistry to the nanogram range, laying the foundations to work with traces, as used extensively in the Manhattan Project of the Second World War. Turning his interest to teaching in later years, he published several text-books and serves as editor of a series of monographs; he is also American editor of the international journal *Mikrochimica Acta*. Throughout his scientific work he always emphasized

the importance of improving the status of the analytical chemist and his value to general scientific research. Thus he was a key figure in establishing the (now) Division of Analytical Chemistry in the American Chemical Society. His name, however, will be linked for ever with the field of microchemistry, his development of simple but ingenious analytical techniques and his teaching ability. Recently, he retired from his teaching position at Queens College to his farm near Camden, South Carolina. From the many international recognitions only the last one may be mentioned, that is, the Anachem Award presented to him in October 1963 in Detroit.

Heavy Electrical Engineering at the Imperial College of Science and Technology : Prof. A. Tustin

PROF. A. TUSTIN, who retires from the chair in heavy electrical engineering in the Imperial College of Science and Technology in October 1964, was head of the Department of Electrical Engineering in the University of