

Dr. R. G. Gillis. Pp. i + 48. Maribyrnong, Victoria: Defence Standards Laboratories, Department of Supply, 1958), covering work up to the end of 1957, should be most valuable. 134 references on the theory and application of intensity measurements contained in *Chemical Abstracts* are collected together with their abstracts. They are arranged substantially in chronological order within the thirteen sections entitled: early work (pre-1946); general (theory); general (experimental); simple molecules; C—H and C—D bands; hydrocarbon analysis; O—H and O—D bands; N—H and N—D bands; ester and ketone C = O bands; steroids; C ≡ N bands; pressure broadening; and pressure-induced absorption. Since the principles of quantitative analysis are now well known, references to many methods for the quantitative determination of particular compounds have been specifically omitted from the bibliography.

pH Measurements

ANALYTICAL MEASUREMENTS, LTD., Richmond, Surrey, is supplying an analytical pocket pH meter which can be used to make pH measurements with small amounts of solution. It is complete with batteries and a case of plastic tubes of buffer solution. The meter has a scale from 0 to 14 pH and an accuracy of 0.1 pH is obtainable. The assembly is in a waterproof case; the electrometer tube, switch and input connector are sealed in a single unit and the weight with accessories is only 3 lb. The current price is £39 18s.

Shell Chemical Co. Reorganization

CERTAIN of the operations of the Shell Chemical Co., Ltd., are to be integrated into three divisions corresponding to the three main fields in which it is engaged, namely, industrial chemicals, agriculture and plastics. These changes became effective on July 1. The manager of the Industrial Chemicals Division is Mr. P. J. March. This Division deals with solvents, general chemicals, resins and detergent products. The existing agricultural organization remains unchanged as the Agricultural Division under Mr. H. G. Huckle. The Plastics Division has assumed responsibility for polyolefins, polystyrene, polyvinyl chloride and synthetic rubber. The manager of this Division is Mr. V. N. Luke.

Rare Earth Metals

SUCCESSFUL production of all the rare earth metals has been achieved by Johnson, Matthey and Co., Ltd., following some active research over the past few years. Supplies of the rare earths in their normal form as oxides have been available in several grades of purity; however, improved techniques for the production of the metallic elements have now been brought to fruition, and all the fourteen naturally occurring elements, together with the closely related elements scandium and yttrium, are now available in a variety of forms. The metals are reduced from their fluorides with lithium, calcium or lanthanum in tantalum crucibles in an atmosphere of argon, and are then re-melted in vacuum. Impurities are held at a very low level and in some cases the purity is higher than has hitherto been achieved.

Society for Applied Bacteriology

AT the annual meeting of the Society for Applied Bacteriology, held in London on July 8, the following were confirmed in office: Hon. President, Mr. D. A. McKenzie; Hon. Treasurer, Mr. G. Elis Jones;

Hon. Editors, Dr. S. E. Jacobs and Dr. C. A. E. Briggs; Hon. Publications Manager, Mr. A. H. Walters; Hon. Advertising Manager, Mr. E. J. Mann; Members of Committee, Dr. Eve Billing, Mr. N. J. Butler, Prof. E. L. Crossley, Dr. J. G. Davis, Mr. B. M. Gibbs, Mr. D. J. Jayne-Williams, Dr. Jane Meiklejohn, Dr. G. C. Ware and Dr. M. Woodbine. After eight years as hon. secretary of the Society, Mr. G. Sykes announced his resignation. His place will be taken by Dr. Ella M. Barnes, Low Temperature Research Station, Downing Street, Cambridge. This change will take place towards the end of October.

Josiah Macy, Jr., Foundation Grants

UNRESTRICTED grants amounting to 1,650,000 dollars to eleven private medical schools in support of their teaching research staff have been announced by the Josiah Macy, Jr. Foundation, New York. The Foundation has made unrestricted grants of 50,000 dollars per annum for a three-year period to each of eleven private medical schools for strengthening their research teaching staff, particularly in the medical science departments.

National Science Foundation Grants

THE National Science Foundation of the United States has announced the award of fourteen grants totalling 1,534,500 dollars. The aim is to strengthen biological research by helping to provide scientists with new or modernized facilities and specialized experimental equipment. Major grants are to be awarded as follows: 250,000 dollars to the Woods Hole Oceanographic Institute, Massachusetts; 171,600 dollars to the Bernice P. Bishop Museum, Hawaii; 162,000 dollars to the Marine Laboratory, University of Miami; 155,000 dollars to the California Institute of Technology; 150,000 dollars to the University of Chicago; 135,000 dollars to the Long Island Biological Association; and 105,000 dollars to the Woods Hole Marine Biological Laboratory. Other recipients are: White Mountain Research Station, University of California; California Academy of Sciences; Colorado State University; University of Chicago; University of Missouri; Marine Laboratory, Duke University, North Carolina; and the Academy of Natural Sciences of Philadelphia.

The Alvarenga Prize

ON July 14 the College of Physicians of Philadelphia awarded the Alvarenga Prize for 1959 to Dr. Hilary Koprowski, professor of research medicine, University of Pennsylvania, for his outstanding work on the development of a living attenuated virus vaccine against poliomyelitis. The Alvarenga Prize was established by the will of Pedro Francisco DaCosta Alvarenga, of Lisbon, Portugal, an associate fellow of the College of Physicians of Philadelphia, to be awarded annually by the College of Physicians on the anniversary of the death of the testator, July 14, 1883.

Carlsberg-Wellcome Travelling Research Fellowships

THE Carlsberg Foundation (Copenhagen) and the Wellcome Trust (London) announce a third series of awards of these Fellowships, which they jointly instituted in 1957. The successful candidates for 1959–60 are Mr. Michael Weis Bentzon, head of the Statistical Department of the State Serum Institute, Copenhagen, and Mr. John Anthony Hunt, at present