

illustrated by nearly one hundred beautifully clear line drawings—specially prepared for this work, we take it—by the author, and admirably reproduced, it is full of authoritative information on the structure, classification, and habits of these interesting mammals. It is prefaced by a brief account of those characters of the mammalia which are of importance in classification, a general definition of scientific terms, and explicit instructions for making records and measurements of specimens. The classification of the mammalia, definitions of the subclasses, and accounts of the families, genera, and species follow in turn, and concise keys to these are provided in every case, while the author does a great service by including the native and common names of all the mammals. His chapters on the distribution and past history of the Didelphia, the place of the Didelphia in the mammalian phylum, and the special problems of the mammalian fauna of Australia will be specially welcome as the considered opinion of an expert. We hope that Dr. Wood Jones's departure from Adelaide will not interfere with or even delay the publication of the second part of his handbook.

(2) Mr. Waite's handbook on the fishes is practically a reissue, in more popular form, of his admirable "Catalogue of the Fishes of South Australia," published in 1921, and as such, therefore, requires no special mention here except to say that its reissue in this form enhances its utility for the general public and provides a worthy companion to Dr. Wood Jones's handbook. The illustrations have been beautifully prepared and admirably reproduced.

The British Science Guild, the authors, and the Government of South Australia are to be congratulated on the inauguration of this excellent series of handbooks. It is to be hoped that nothing will interfere with the early completion of this valuable and greatly needed work.

A Tribute to Prof. Schreinemakers.

Recueil des travaux chimiques des Pays-Bas. Feestbundel aangeboden aan F. A. H. Schreinemakers ter herdenking van den dag, waarop hem voor 25 Jahren het Doctoraat honoris causa werd verleend (7 Juli, 1898–1923). Pp. 535–858+iv. (Leyde, Holland: A. W. Sijthoff, 1923.) 8s. 3d.

ON July 7, 1898, the degree of doctor *honoris causa* was conferred on Prof. F. A. H. Schreinemakers by the University of Leyden. In recognition of the splendid work carried out by Prof. Schreinemakers in the field of heterogeneous equilibria, wherein he has carried on and greatly developed and extended the work initiated by van't Hoff and Roozeboom, his former pupils and friends and other men of science

presented him on July 7, 1923 (the twenty-fifth anniversary of his attaining the doctorate *honoris causa*) with a special commemorative volume containing a large number of scientific papers. This volume consists of Nos. 7 and 8 of volume 42 (or volume 4, 4th series) of the *Recueil des travaux chimiques des Pays-Bas*. The editor, Dr. W. P. Jorissen, is to be very warmly commended for having published this "Festschrift" as an integral and current part of a well-known scientific journal, and not as a separate, and to many scientific workers somewhat inaccessible, volume.

It is a significant token of the esteem in which Prof. Schreinemakers is held by his pupils and colleagues and by the scientific world in general, that the memorial volume contains 63 scientific papers and includes 324 pages of reading matter. Since these papers are published in the current volume of a scientific journal, it will be unnecessary to enumerate them in detail. Naturally a considerable number of them deal with investigations in the field of heterogeneous equilibria, whilst the majority of them have a more or less close relation to this subject. The range of topics dealt with is so great that it will be possible to refer only to a few.

Prof. Kamerlingh Onnes deals with the equilibrium between the liquid and gaseous phases of helium at low pressures, and shows that there exists a maximum in the heat of evaporation of the liquid. The velocity of saponification of fats by hot aqueous solutions in relation to the theory of adsorption at the interface liquid fat-aqueous solution is dealt with in an interesting manner by J. P. Treub. P. W. Bridgman communicates a paper on the compressibility of hydrogen gas at very high pressures, in which he shows that the molecules themselves suffer compression. The kinetic theory of the osmotic pressures of solutions of strong electrolytes is treated by P. Debye. W. Reinders and A. W. Vervloet deal with the equilibria between tungsten and its oxides in presence of steam and hydrogen. The measurement of the viscosity and surface tension of viscous liquids at high temperatures is dealt with by E. W. Washburn. There is an interesting paper by P. Ehrenfest on the equilibrium between volume phases and "two-dimensional" phases regarded as unimolecular adsorption layers. A. H. W. Aten deals with the electrolytic separation of metallic alloys. The concepts of acid and base are discussed from a very interesting and novel point of view by J. N. Brönsted. These examples will suffice to show the wide range of subjects dealt with by the contributors to this volume.

We offer Prof. Schreinemakers our very warm congratulations on the high and well-deserved honour which has been paid to him, and we wish him many years of health and happiness.