

BOOK NOTICES AND REVIEWS.

Chemistry in Relation to Biology and Medicine with Especial Reference to Insulin, by JOHN JACOB ABEL, Ph.B., M.D. Published by Waverly Press, Inc., Baltimore, Md.

The Willard Gibbs lecture, delivered by John Jacob Abel before the Seventh Midwest Intersectional Meeting on the occasion of the award to Dr. Abel of the Willard Gibbs Gold Medal, a reprint from *Science*, has been printed under separate cover. The distinguished author was awarded the Gold Medal by the Chicago Section of the American Chemical Society on May 27, 1927.

Dr. Abel, in his lecture, traced the growth of Biochemistry from the beginning of its origin to the present day. He revealed the part which the old alchemists played in this phase of chemical development. Such men as Paneth, Paracelsus, Meyer, Boyle, Sudhoff, Lavoisier, Priestley and many others are given mention as to the invaluable importance their contributions were to biochemistical development. After the period of the alchemist had passed there was ushered in a more reasonable phase of Chemistry which resulted in the era of synthetic chemistry. Such men as Liebig and Wöhler are given mention as pioneers of this field. With the advance of science came the advent of the physical chemist who contributed to the assistance of the biochemist in his problems dealing with micro and ultramicrophysical structures, and the orientations of molecular structures. Of the endocrine glands Dr. Abel discusses the pancreas and its internal secretion product, insulin, with regard to the research leading to its discovery and recent developments due to his own endeavor in isolating and separating this important hormone of diabetic treatment.

Only a few copies of this book are available to those who wish to possess a remembrance of the "Father of American Pharmacology," a man who dedicated his life's work to the advancement of Pharmacology—Dr. John Jacob Abel.—EMERSON C. BEELER.

Life's Beginnings on the Earth, by R. BEUTNER, M.D., Ph.D., Professor of Pharmacology, Hahnemann Medical College and Hospital, Philadelphia, Pa. Publishers, The Wilkins Company, Baltimore, Md. Price, \$3.00.

Dr. Beutner discusses Vital Growth and Crystallization, Life as Carbon's Outstanding

Property, The Importance of Salt and Water for Life and Growth and The Fundamentals of Motion. The author states that a new conception is presented in which Chemistry is used as a key and the latest results in virus research are taken into account.

Textbook of Physiology, by WILLIAM D. ZOETHOUT, Ph.D., Professor of Physiology in the Chicago College of Dental Surgery (Loyola University). Publishers, The C. U. Mosby Company. The Preface to the Sixth Edition is prompted by the publishers and author, 3525 Pine Blvd., St. Louis, Mo., because of the many recent discoveries. The chapters dealing with hormones and vitamins have been carefully rewritten and the chapters on circulation have been largely revised, and much new material has been added. There are 291 illustrations, and about 700 reading and text pages. Price, \$4.00.

Some of the Universities using the Zoethout's text are named; Cornell, Illinois, Ohio, Florida, Purdue, Utah, Colgate, Missouri, Washington, Iowa, San Diego, California, Connecticut, Nebraska and others. Women's Colleges: Bryn Mawr, Teachers Colleges, Memphis, Tenn., Greely, Colo., Tampa, Arizona and others. Dental Schools: Atlanta Southern, North Pacific, Tufts, Creighton. Pharmacy Schools: Pittsburgh, St. Louis, Nebraska, Columbia, Maryland, etc. There has been considerable revision and a glossary of the more commonly used terms and a list of prefixes and suffixes have been added.

Biology for Pharmaceutical Students and Others. By S. MANGHAM, M.A. (Cantab.) Professor of Botany, University College, Southampton, formerly Examiner in General Science, Botany and Biology, School Certificate Examinations, Cambridge; in Biology Higher School Certificate, London. Author of an "Introduction to Botany," and joint author of a "First Biology" and a "Second Biology" and A. R. Hockley, B.Sc. (London), lecturer in Zoology, University College, Southampton. Publishers, William Wood & Co., Baltimore, Md. 1938. Price, \$6.50. This book is designed primarily to meet the requirements in Biology.