the St. Louis College of Pharmacy in 1875. He owned a drug store at 26th Ave. and Humboldt St. in Denver for many years, and afterward went to Longmont, where he operated a store until about 1918. The deceased became a member of the American Pharmaceutical Association in 1902.

## CHARLES PFIZER.

Charles Pfizer, son of the founder of Charles Pfizer & Co., New York, died October 6th at his home in Bernardsville, N. J., aged 68 years. His brother, Emile Pfizer, is president of the chemical company. His wife, two sisters and brother survive.

## W. H. PERKIN.

William Henry Perkin, F. R. S., Waynflete Professor of Chemistry at Oxford, died on September 17th, aged 69 years. He was the eldest son of Sir William Henry Perkin, the founder of the coal-tar dye industry. Upon completing his chemical studies in Germany, he was appointed professor of chemistry at the Heriot-Watt College, Edinburgh, where he inaugurated his great experiments upon the alkaloids, beginning with berberine. In 1892 he was elected professor at Manchester University, where he remained until his appointment, in 1912, to the Waynflete Chair at Oxford.

## MRS. P. J. GARVIN.

Mrs. P. J. Garvin, wife of our fellow member, P. J. Garvin, died November 30th. The esteem and love for Mr. and Mrs. Garvin were expressed by floral tributes and attendance at the funeral services by many representatives of various organizations and the drug trade activities from all parts of Connecticut. As is known to our readers, Mr. Garvin is secretary of Connecticut Pharmaceutical Association and State Pharmacy Inspector. Sympathy is expressed to the bereaved.

## BOOK NOTICES AND REVIEWS.

Organic Chemistry for Students of Pharmacy and Medicine. By A. H. CLARK, Professor of Chemistry, University of Illinois, School of Pharmacy. D. Van Nostrand Company, Inc. 8 Warren St., New York, 1929, 446 pages, cloth,  $5^1/2 \times 8^1/2$ . Price \$3.50.

In the preface of the book, the author states in part, "In this volume an endeavor has been made to present such theory as is needed for an understanding of medicinal products and to include a description of many such products not mentioned in the usual texts.... Subjects, such as dyes, industrial organic chemistry, many of the important type reactions for the synthesis of organic compounds, etc., are conspicuous for their absence, or are very briefly touched upon .... Therapeutics is lightly touched upon. The very interesting field of the relationship of chemical constitution to physiological action is also passed over lightly, it being intentionally left for the individual teacher to deal with as he sees fit." This quotation indicates the scope of the work. The reviewer does not agree with the author in his conclusion that students of pharmacy and medicine require less knowledge of the fundamental theory and basic type reactions of organic chemistry than do other students of science. The text material is largely descriptive.

The book is divided into three parts as follows: Part I deals with open-chain hydrocarbons; Part II treats of the aromatic compounds, volatile oils, alkaloids, etc.; and Part III is given over to synthetic medicinal agents. In Part I, various products derived from the aliphatic hydrocarbons are described, i. e., unsaturated hydrocarbons, petroleum products of commerce, esters, waxes, lipoids, carbohydrates, gums, proteins, etc. Part II includes a description of cyclic compounds such as benzene and its homologues, aromatic sulphonic, halogen and nitroderivatives, aromatic acids, volatile oils, alkaloids and related substances, glucosides, resins, etc. Part III takes up the synthetic derivatives and other medicaments under different chapter headings such as, hydrocarbons, chlorine compounds, iodine compounds, phenolic compounds, quinoline derivatives, arsenicals, mercurials, etc. The structural formula of almost every compound mentioned is given with a brief description of the properties of the compound. In a very few cases, the reactions involved in the synthesis of a compound are shown. Seldom are the properties of a compound illustrated by the reactions which it takes part in when treated with various reagents.

A knowledge of organic chemistry consists, in the writer's opinion, of knowing how a substance of a given formula will react under different conditions. In other words, it consists of a knowledge of the reactions of organic chemistry. It is of little value to have available or know numerous structural formulas unless one knows how to use them.

The descriptive matter might be improved by eliminating the loose terminology employed which is often confusing, e. g., page 278, "Amygdalin is found in large quantities.....;" page 280, "A number of things have been called digitalin;" page 26, "This is 4, 2 methylpentene. As in all cases of this kind where two things are located by numbers the order in which the numbers are given must be the same as that in which the things are named."

The introduction of a comparatively detailed discussion of the volatile oils, their occurrence, methods of isolation, most important constituents, properties and the similar treatment of the glucosides, tannins, alkaloids, etc., is especially commendable since most textbooks of organic chemistry pass over these subjects which are very important to the student of pharmacy and medicine with slight consideration. In like manner, a great number of synthetic medicinal products are discussed. An insight into the subject matter covered in this portion of the work may be gained from the following paragraph headings selected at random: "Sejodin," "Thymol Iodine," "Thyroxin," "Thymol Carbonate," "Spiracin," "Saloquinine," "Intarnin," "Bromural," "Acridine," "Neoarsphenamine," and "Mercurochrome 220 Soluble." Generally, the structural formula and a brief description of the synthetic product are given and frequent reference is made to the descriptive matter contained in the U.S.P., N.F. and N.N.R. Approximately two hundred of the more recent remedial agents are taken up in this part of the book.

The book is well printed on a good quality of paper and well bound.—GLENN L. JENKINS.

Practical Materia Medica. By CLAYTON S. SMITH AND HELEN L. WIKOFF; Lea and Febiger, 300 pages, \$3.25. The book, prepared by the professor and instructor of physiological chemistry and pharmacology in the College of Medicine of the State University, Columbus, Ohio, represents an introduction to the study of pharmacology and therapeutics for medical students.

The names, preparations, their administration, the doses and the chemistry of the official drugs are discussed in a general way in the Materia Medica (1), (2); Toxicology (3); Prescription Writing (4). In the appendix we find a discussion of reagents and test solutions

The metals, acids and non-metallic elements are grouped together and the aliphatic and aromatic series, the terpenes, carbohydrates, glucosides, fats, aliphatic nitrogen compounds and alkaloids. Under toxicology the poisonous drugs are assembled, as corrosives, irritants and neurotics, but they are individually discussed under the classification of volatile poisons, non-volatile organic poisons and metallic poisons.

The authors, admittedly, have freely used the U. S. P., the N. F. and standard texts on organic and physical chemistry. Knowledge given is fairly up-to-date, though no specific reference is made to colloidal solutions, to the latest work on the chemistry of important drugs, as digitalis, the synthesis of thyroxin, the use of copper in anemia, etc. Surprisingly, senna is not mentioned among the emodinbearing drugs, nor is ergosterol or any of the vitamines other than vitamine A of cod liver oil emulsions, nor all the hormones and important It appears hardly justified to include juniper and such spices as mustard, nutmeg and rosemary under the poisonous drugs, as done by the authors in their classification.

A glossary would appear to be a helpful addition in an elementary book of this kind. Pharmacists, interested in the graduate study of medicine have the advantage of a more extended training than is given to medical students through books of this limited scope. Nevertheless the book will prove suggestive and helpful in review work. Paper, print and binding are good.—Arno Viehoever.

Aids to Pharmaceutical Latin. By G. E. Trease. Published by Baillere, Tindal & Cox. Price 3s., 6d. The author is a lecturer in pharmacognosy at University College, Nottingham, and joint author of "The Chemistry of Crude Drugs." The book is really a concise Latin grammar and written with the needs of the physician and pharmacist in mind. The list of abbreviations used in prescription writing is quite complete and also the phrases. In prescription writing and dispensing it will be found of value to the physician and in the drug store, and particularly, in the teaching of Latin to medical and pharmacy students in the use of such terms in prescription writing.