

BOOK NOTICES AND REVIEWS.

Die Riechstoffe und ihre Derivate, Die Aldehyde, "Aromatic Bodies and Their Derivatives, The Aldehydes," Volume I, Parts Three and Four, 311 and 344 pages, respectively, edited by DIRECTOR ALFRED WAGNER. A. Hartleben's Verlag, Wien and Leipzig, 1930 and 1931.

These two parts complete the reference book on aldehydes edited by Director Alfred Wagner with the assistance of Drs. M. Burger and F. Elze. Part Three includes a discussion of aromatic oxaldehydes with saturated side chains, bivalent oxaldehydes, the ethers of oxaldehydes with saturated and unsaturated side chains and the aroxylaldehydes. The work is most thorough and comprehensive and the full value of it can only be appreciated by the highly trained chemical specialist in the domain of perfume chemistry. The treatment of aromatic oxaldehydes with saturated side chains covers 104 pages. The next eleven pages are devoted to para-oxybenzaldehyde, succeeded by a discussion of methoxybenzaldehyde. Following the chemistry and description of anisaldehyde, covering 30 pages of text, there is a minute discussion of oxyphenylacetaldehydes, homo-anisaldehyde, oxy-ortho-toluyaldehyde, homo-salicylaldehydes of various kinds, para-methoxyhydrocinnamic aldehydes with their derivatives, oxynaphthaldehyde, oxybutylbenzaldehyde, cinnamic isobutylaldehyde and other complicated related compounds. After the section on aromatic monoxaldehydes with saturated side chains comes the treatment of bivalent oxaldehydes such as protocatechualdehyde, resorcyaldehyde, gentisinaldehyde, vanillin, piperonal, homovanillin, homopiperonal, isovanillin, benzoylisovanillin, methylvanillin, safrovanillin, everninaldehyde, asarylaldehyde, syringaaldehyde, myristicinaldehyde and apiolaldehyde. The third section is devoted to ethers of the aromatic oxaldehydes with saturated side chains; the fourth section deals with ethers of aromatic oxaldehydes with unsaturated side chains; and, finally, the last part of the book concerns itself with aroxylaldehydes such as cresoxyacetaldehyde, xylenoxyacetaldehyde, etc. Vanillin, on account of its enormous importance in perfume chemistry, is treated with the greatest care and occupies 84 pages of the book. Piperonal is also described at great length.

The method of treatment in Part Three is very much like that of the previous section. In case of all the more important drugs, the author begins with an historical chapter. After discussing the constitution of the compound and

its occurrence in nature, the writer passes to the method of preparation. The methods of preparation having been discussed at length, the physical characteristics and the chemical properties of the compound are successively described. Following these there is a complete description of various derivatives and methods of detecting and identifying them. One of the most valuable features of various chapters throughout the work are the numerous and very enlightening tables, which show the relation in structure as well as the lines of synthesis of every important compound to its numerous derivatives. Practically every page is replete with an exhaustive bibliography from the earliest and most recent publications on the subjects discussed. Both print and paper of this work are exceptionally good.

Part Four completes the work on aldehydes and is of an extraordinary character. It consists for the most part of an index and abstracts of patents in connection with aldehydes registered in practically every country of the world. Each patent is described in detail and should prove of immense value to those interested in this particular branch of chemistry. The patent section comprises about two hundred pages. The entire volume is concluded by two indices of all the material treated in the four parts. The first is a register of authors and the second, an index of the contents.—DAVID I. MACHT.

PUBLICATIONS RECEIVED.

"Contributions to the Anatomy of Leaves of Drug Plants Used in Pharmacy of the Scrophulariaceæ"—a thesis submitted, for the doctors degree, to the Philosophical Faculty of the University of Basel by Werner Spoerri, pharmacist of Einsiedeln.

"Contribution to the History of Members of the Solanaceæ"—a thesis submitted to the Philosophical Faculty of the University of Basel for the doctor's degree, by pharmacist Emil Gerhard, of Basel.

Reprint from the Institute of Botany, Hamburg on "Investigations of Foods," by Drs. A. Bömer, A. Juckenack and J. König.

Reprint from *Pharmacia* of an article by Prof. R. Wallner on "The Development of Pharmacy and the Drug Business in Esthonia."

A review on "Jake Paralysis" by L. A. Turley, H. A. Shoemaker and D. T. Bowden a study by members of the faculty of the University of Oklahoma.