

New Books

Annual Review of Entomology, Vol. 1

Edited by EDW. A. STEINHAUS; Assoc. Ed., RAY F. SMITH. x + 466 pp., 26 figs., cloth bound. Published by Annual Reviews, Inc., Stanford, Calif. \$7.00 (U.S.A.) and \$7.50 (foreign). Reviewed by HAROLD H. SHEPARD, Commodity Stabilization Service, USDA, Washington, D. C.

A NOTABLE EVENT has occurred in the field of entomology. The "Annual Review of Entomology" has been organized, with the first volume appearing in 1956. This is a creditable addition to those other critical reviews by the same publisher already well recognized in such major fields as physiology, biochemistry, physical chemistry, and nuclear science.

The knowledge of insects is expanding rapidly and investigators are acquiring new viewpoints and research tools. Not only have scientific reports in this field become much more numerous, but they are often to be found in nonentomological journals devoted to a great diversity of subjects. A committee was formed by the Entomological Society of America to study ways and means of dealing with this literature problem. After thorough investigation, it recommended reviews by specialists to be published by Annual Reviews, Inc. The primary objective, as stated, is to publish "authoritative and concise treatments of definitive subjects of current interest. . . . The more active fields of research will require critical reviews annually while the less active areas may be summarized and evaluated as developments require."

Of the 21 topics covered in this first volume, a considerable proportion are significant contributions to chemical literature—indicative of present-day emphasis of entomologists upon insect physiology and the various aspects of chemical control of insects. Of particular interest in this respect are chapters on: physiology and biochemistry of diapause, insect nutrition, arthropod resistance to chemicals, mode of action of insecticides, persisting insecticide residues in plant materials, repellents, apparatus for application of insecticides, and effect of pesticides on balance of arthropod populations.

The reviewers have made use of tables and figures where these were deemed of advantage. Literature citations at the end of each article are extensive but without titles. The 28-

page index (three-column) is equally divided into author and subject indices. Authors of the review articles have been drawn chiefly but not exclusively from the English-speaking countries.

Volume 2 of the "Annual Review of Entomology" will contain reviews of 20 topics, and is expected to appear early in 1957.

The Entomological Society of America, the editorial committee, and entomologists at large may well be proud of this venture. These reviews will provide a source of up-to-date information sorely needed in entomological teaching, research, and control operations.

LITERATURE AVAILABLE

Antifoam Agent. Information sheet describing properties and applications for antifoam agent designed to prevent formation of foam in the handling and drying of such materials as spent yeast from breweries, cheese whey from dairies, and similar food and chemical processing materials. Dept. A&F, HODAG CHEMICAL CORP., 7247 North Central Park, Chicago 45, Ill.

Bagging Scale. Open type bagging scale designed to handle all nondusty materials in 25, 50, and 100-lb. weighings, discussed in six-page, illustrated bulletin. Features include power belt feeder, hopper door flapper, leakproof inlet chute, five-digit counter, and scale's 1 to 1 ratio beam. Bull. 0256, Dept. A&F, RICHARDSON SCALE CO., Van Houten Ave., Clifton, N. J.

Chromatographic Analysis. Line of glass and metal fractionating columns, accessories, and absorbents for chromatographic analysis presented in new bulletin. Accessories for temperature control, including a thermocouple, lead wire, temperature indicator, and variable transformer, are pictured and listed. Solid or surface type adsorbents for analysis of gases, and partition type for liquids, as well as inert powders, properly sized, also listed. Bull. 834, Dept. A&F, BURRELL CORP., 2223 Fifth Ave., Pittsburgh 19, Pa.

Guar Gums. Sixteen pages describing combination of physical and chemical properties of guar gum. Also included is information on Food and Drug standards concerning guar gum, methods of handling it, types of guar gum available, and its applications.

Dept. A&F, Jaguar Dept., STEIN, HALL & Co., Inc., 285 Madison Ave., N. Y. 17, N. Y.

Hammer Mill. Heavy duty hammer mill with 20-in. feed opening and 75-100 h.p. range, designed to handle wide range of grinding operations, features instant change screen which can be inserted or removed safely while mill is running. High throat opening facilitates handling of bulky materials. Can be furnished either with direct or belt drive. Dept. A&F, SCHUTTE PULVERIZER CO., INC., 878 Bailey Ave., Buffalo 6, N. Y.

Insect Identification. New booklet, "Handbook of the Insect World," contains 532 illustrations and 64 pages. Includes illustrations of most of the common insects. Gives brief description, classification by entomological order, and approximate size of each insect. Dept. A&F, HERCULES POWDER CO., Wilmington 99, Del.

Laboratory Mixing. New 16-page booklet describes stirrers, stirring electrodes, blenders, oscillating hot plate, shakers. Bull. FS-264, Dept. A&F, FISHER SCIENTIFIC, 308 Fisher Bldg., Pittsburgh 19, Pa.

Laboratory Instrumentation. Information on laboratory instrumentation contained in two-part brochure. The 32-page, illustrated "industrial" edition features portable lab which has its own air supply, exhaust system, and services. Also described: combination stirrer and hotplate; new reagents; new developments in microscopy, pH meters, partition-chromatography apparatus. Ask for industrial edition of THE LABORATORY. Dept. A&F, FISHER SCIENTIFIC, 308 Fisher Bldg., Pittsburgh 19, Pa.

Multisample Dialyzer. Illustrated leaflet tells about dialyzer capable of concentrating 16 separate dilute solutions, up to 20 ml. volume each, or equilibrating solutions against buffer up to volume of 5 liters. Unit useful for concentrating dilute protein samples for paper electrophoresis and for treating protein fractions prepared by continuous-flow certain method. Dept. A&F, OXFORD LABORATORIES, Room 221, 111 Sutter St., San Francisco 4, Calif.

Sesame Oil. Data sheet gives average characteristics, specifications, and application information on sesame oil U.S.P. Dept. A&F, WELCH, HOLME & CLARK CO., INC., 1 Hudson St., New York 13, N. Y.