

there is lack of sufficient clarity and accuracy, as if the authors had referred to reports in the literature without verifying their sources or without thinking critically about some of the findings reviewed. For example (p. 457), it is stated that one investigator has found that "grapes supply (on the average) only 3% of the daily nutritive requirements (of vitamins, calcium, and iron) for adults." In the context of the book this has no meaning. Also, it is stated in a few places that grapes and wines contain some vitamin A. It would have been more accurate to distinguish vitamin A from precursors of this vitamin.

This volume adheres to the general objective of the series, which is "the coordination and integration of food research to promote an orderly and systematic development of scientific knowledge in this important field." The articles should be of interest and great value to a rather wide variety of persons with chemical training who are concerned with food research and technology.

HARRY G. DAY

*Department of Chemistry,
Indiana University*

Connective Tissues. Transactions of the Fifth and Final Conference. Charles Ragan, Ed. Josiah Macy, Jr., Foundation, New York, 1955. 222 pp. Illus. + plate. \$4.25.

The fifth and final Josiah Macy, Jr., Foundation conference on connective tissue is presented in three excellent chapters: "The exchange of materials between blood vessels and lymph compartments," by Benjamin Zweifach; "Interstitial water and connective tissues," by Mario Gaudino; and "Hormonal effects on connective tissues," by Gustav Asboe-Hansen.

There are actually four chapters in this volume, since a section devoted to introductory remarks consumes 24 interesting pages of repartee. In this section the participants discuss their current avenues of research and the ideas behind them.

This conference is presented in the usual verbatim form of the preceding volumes. It differs, however, in that the questions asked of the speaker, and the facts inserted by the participants are much more pertinent and informative than in some of the other conferences.

The factual and speculative material presented is so diversified and yet so relevant to the problems being discussed that I find it next to impossible to amplify upon or summarize the data given. The lists of references after each chapter are quite adequate. An index to subjects

covered in all five conferences is included in this volume.

In contrast to the report of the Fourth Conference on Connective Tissues, this volume is a definite contribution to the general field of connective tissues.

JOHN A. ARCADE

*The James Buchanan Brady Urological
Institute, Johns Hopkins Hospital*

New Books

Trees and Shrubs of the Upper Midwest. Carl Otto Rosendahl. Univ. of Minnesota Press, Minneapolis, rev. ed. 2, 1955. 411 pp. \$6.

Essentials of Biological and Medical Physics. Ralph W. Stacy, David T. Williams, Ralph E. Worden, and Rex O. McMorris. McGraw-Hill, New York-London, 1955. 586 pp. \$8.50.

Highway to the North. Frank Illingworth. Philosophical Library, New York, 1955. 293 pp. \$7.50.

Laboratory Studies in Biology: Observations and Their Implications. Chester Lawson, Ralph Lewis, Mary Alice Burmester, and Garrett Hardin. Freeman, San Francisco, 1955. 328 pp. \$3.50.

Everything and the Kitchen Sink. How the first century of industry created our first century of good living. Farrar, Straus & Cudahy, New York, 1955. 160 pp. \$4.

Horticultural Science. A reading and laboratory manual. Gordon T. Nightingale. Horticultural Publications, Rutgers Univ., New Brunswick, N.J., 1955. 111 pp.

Dielectric Behavior and Structure. Dielectric constant and loss, dipole moment and molecular structure. Charles Phelps Smyth. McGraw-Hill, New York-London, 1955. 441 pp. \$9.

The Pharmacological Basis of Therapeutics. Louis S. Goodman and Alfred Gilman. Macmillan, New York, ed. 2, 1955. 1831 pp. \$17.50.

Chemical Properties of Organic Compounds. An introduction. Elliot N. Marvel and Albert V. Logan. Wiley, New York; Chapman & Hall, London, 1955. 326 pp. \$4.75.

Hydraulic Operation and Control of Machines. Ian McNeil. Ronald, New York, 1955. 324 pp. \$7.50.

Technical Supplement to the Bomb Survival and You. Fred N. Severud and Kurt Bernhard. Reinhold, New York, 1955. 45 pp. \$2.50.

The Interpretation of Dreams. Sigmund Freud. Trans. by James Strachey. Basic Books, New York, 1955. 692 pp. \$7.50.

Scientific Method in Psychology. Clarence W. Brown and Edwin E. Ghiselli. McGraw-Hill, New York-London, 1955. 368 pp. \$6.

Alcoholics Anonymous. The story of how many thousands of men and women have recovered from alcoholism. Alcoholics Anonymous, New York, ed. 2, 1955. 575 pp. \$4.50.

A Statistical Study of Livestock Production and Marketing. Cowles Monogr. No. 15. Clifford Hildreth and F. G. Jarratt. Wiley, New York; Chapman & Hall, London, 1955. 156 pp. \$4.50.

Miscellaneous Publications

(Inquiries concerning these publications should be addressed, not to Science, but to the publisher or agency sponsoring the publication.)

Training Highway-Department Personnel. Highway Research Bd. Bull. 103. Natl. Acad. of Sciences-Natl. Research Council, Washington, 1955. 16 pp. \$0.45.

Irrigation of Cotton in Arkansas. Bull. 552. D. A. Brown, R. H. Benedict, and B. B. Bryan. Agr. Expt. Sta., Univ. of Arkansas, Fayetteville, 1955. 40 pp.

National Sanitation Foundation. Ten year report, 1945-54. School of Public Health, Univ. of Michigan, Ann Arbor, 1955. 96 pp.

Hydrocarbon Losses from the Petroleum Industry in Los Angeles County. Rpt. No. 5. Air Pollution Foundation, Los Angeles, 1955. 22 pp. \$1.50.

Asia Is Our Business. Studies in business and economics, vol. 9, No. 1. Bur. of Business & Economic Research, Univ. of Maryland, College Park, 1955. 15 pp.

Amphipoda Collected at the Arctic Laboratory, Office of Naval Research, Point Barrow, Alaska. G. E. MacGintie. Smithsonian Misc. Coll., vol. 128, No. 1. Clarence R. Shoemaker. 78 pp. **Sixty-Year Weather Forecasts.** No. 3. C. G. Abbot. 22 pp. **Periodic Solar Variation.** No. 4. C. G. Abbot. 20 pp. Smithsonian Institution, Washington, 1955.

Allergy and Anaphylaxis. Keizo Nakamura. Nippon Medical School, Tokyo, Japan, 1954. 114 pp.

Unified Symbolism for World Understanding in Science, Including Bliss Symbols (Semantography) and Logic, Cybernetics and Semantics. Oliver L. Reiser. Semantography, Sydney, Australia, 1955. 52 pp.

Comparative Cost Studies of School Buildings. vol. XLVIII, No. 7. Clinton H. Cowgill. Virginia Polytechnic Inst., Eng. Expt. Sta., Blacksburg, Va., 1955. 42 pp.

Credit Courses by Television. American Council on Education, Washington 6, 1955. 50 pp. \$1.

Investigations on Genetic Aspects of Carcinoma of the Stomach and Breast. Publ. in Public Health, vol. 2, No. 4. Charles M. Woolf. 85 pp. \$1. **A Systematic Study of the Genus Aphytis Howard (Hymenoptera, Aphelinidae) with Descriptions of New Species.** Publ. in Entomology, vol. 10, No. 4. Harold Compere. 49 pp. \$0.75. **Morphology and Biology of Sturmia harrisinae Coquillett (Diptera), a Parasite of the Western Grape Leaf Skeletonizer.** Publ. in Entomology, vol. 10, No. 5. Owen J. Smith, Paul H. Dunn, and John H. Rosenberger. Univ. of California Press, Berkeley, 1955.

Insects of Micronesia Bibliography. vol. 2. Teiso Esaki, E. H. Bryan, and J. L. Gressitt. Bernice P. Bishop Museum, Honolulu, 1955. 68 pp.

Government in Economic Life. 35th annual report. Solomon Fabricant. Natl. Bur. of Economic Research, Inc., New York, 1955. 78 pp.

Proceedings of the Third Medical Conference of Muscular Dystrophy Associations of America, Inc. The Associations, New York, 1954. 324 pp.