

Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N. W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

THE ACANTHACEAE OF COLOMBIA, II—Emery C. Leonard—*Gov't Printing Office*, Contributions from the United States National Herbarium Vol. 31, Part 2, 203 p., illus., paper, 70 cents. Nine genera, including 106 species, of which 73 are described as new, are discussed.

A FIELD WITH PLANT LOVERS AND COLLECTORS: Botanical Correspondence of the Late Harry N. Patterson with the Great Botanical Collectors and Distributors of America from 1870 to 1919—Alice L. Kibbe, Ed.—*Kibbe and Gem City Business College*, 565 p., illus., \$7.00. The correspondence of a botanist-plant explorer with his colleagues covering the period from 1870 to 1919. Biographical sketches of H. N. Patterson and S. B. Mead are included.

CAUSES OF INDUSTRIAL PEACE UNDER COLLECTIVE BARGAINING: ATLANTIC STEEL COMPANY AND UNITED STEELWORKERS OF AMERICA, A Case Study—Glenn W. Gilman and James W. Sweeney—*National Planning Association*, 101 p., paper, \$1.00.

GEOGRAPHY IN THE TWENTIETH CENTURY: A Study of Growth, Fields, Techniques, Aims, and Trends—Griffith Taylor, Ed.—*Philosophical Library*, 2nd ed., 661 p., illus., \$8.75. Intended to appeal primarily to mature students of geography, and advancing some ideas of the author for which he does not expect acceptance until 1976.

HOW TO TROUBLESHOOT A TV RECEIVER—J. Richard Johnson—*Rider*, 124 p., illus., paper, \$1.80. Finding the trouble in a modern television receiver takes more time than remedying it. This book for the television technician may provide some short cuts.

INDUSTRIAL HYGIENE FOUNDATION—*Mellon Institute*, 8 p., illus., paper, free upon request to publisher, 4400 Fifth Ave., Pittsburgh 13, Pa. Describing a non-profit research association for the advancement of occupational health.

INTERNATIONAL REVIEW OF CYTOLOGY: Volume II—G. H. Bourne and J. F. Danielli, Eds.—*Academic*, 545 p., illus., \$11.00. Cytology and cell physiology are regarded by the editors as a single field, and the reviews are drawn from some of the most active areas in this field.

LAND AND WATER TRAILS—Ellsworth Jaeger—*Macmillan*, 227 p., illus., \$2.95. Here the author attempts by drawings and by words to "blaze a trail" to outdoor knowledge.

MOTHER AND BABY CARE IN PICTURES—Louise Zabriskie—*Lippincott*, 4th ed., 244 p., illus., \$3.00. Answering the prospective mother's questions about preparation for the coming of the baby as well as care after birth. By the director of a maternity consultation service.

PLANNING GUIDE FOR RADIOLOGIC INSTALLATIONS—Wendell G. Scott, Chairman, Committee on Planning of Radiologic Installations, American College of Radiology—*Year Book Publishers*, 336 p., illus., \$8.00. Prepared as a joint undertaking in response to requests for an authentic source of information on the subject. Forty-nine prominent specialists contributed.

PRACTICAL POULTRY BREEDING—Don C. Warren—*Macmillan*, 242 p., illus., \$4.50. Much of the data accumulated on genetics in poultry has been of little use to the practical poultry breeder; the economic traits which interest him are of complicated inheritance. This book represents the author's interpretation of the practical applications of the knowledge of genetics.

RAND McNALLY WORLD GUIDE—*Rand McNally*, 726 p., illus., \$6.95. A compact reference book on geography arranged by countries and continents.

SCIENTIFIC AMERICAN READER—George Gamow and others—*Simon & Schuster*, 626 p., illus., \$6.00. Written by scientists to explain their work, and edited by the science writers who revived the old "Scientific American" magazine.

SCIENTIFIC RESEARCH AND DEVELOPMENT IN AMERICAN INDUSTRY: A Study of Manpower and Costs—Bureau of Labor Statistics in cooperation with U. S. Dept. of Defense—*Govt. Printing Office*, Dept. of Labor Bulletin No. 1148, 106 p., illus., paper, 50 cents. The final report on a survey of research in private industry and non-profit agencies other than educational institutions. About 96,000 research engineers and scientists were employed by the nearly 2,000 companies in the study.

SEMIMICRO QUALITATIVE ANALYSIS—Hervey Hubbard Barber and T. Ivan Taylor—*Harper*, revised ed., 404 p., illus., \$4.50. Theoretical material is integrated with laboratory work in this textbook for students who already have had training in general chemistry.

SOIL SCIENCE SIMPLIFIED—Helmut Kohnke—*Kohnke*, 66 p., illus., paper, \$1.00. A concise book for busy people, providing them with useful information in readable form.

TECHNICAL ASPECTS OF SOUND: Volume I, Sonic Range and Airborne Sound—E. G. Richardson, Ed.—*Elsevier*, 544 p., illus., \$11.00. Intended to fill a need for a "handbook" to cover all the technical aspects of the subject of sound. For research workers, industrialists and advanced students.

TECHNICAL ILLUSTRATION—*Higgins Ink Company*, 62 p., illus., paper, \$2.50. Three-dimensional drawing, the introduction comments, is becoming more important because of the demand of industrialists, in spite of the fact that engineering schools do not teach it.

Science News Letter, December 5, 1953

AGRICULTURE

Hormones Increase Rubber Production

► RUBBER YIELDS as high as 75% above normal have been obtained in experiments with hormone treatment of the rubber-tree bark, the Rubber Research Institute of Malaya reports.

Small concentrations of hormones and sodium salts in palm oil applied to the bark just below the tapping point gave the best results in these tests. On the other hand, injections of copper sulfate in holes bored into the rubber trees, a procedure long known by rubber planters to increase rubber yields, proved objectionable for several reasons, the Malaysians found.

The hormone treatment was given for 14 months in the area where the rubber yield increased 75%. In another area production shot up 20% to 30% above normal over a period of one and a half years' treatment.

In contrast, the copper-sulfate treatment turned out to be harmful to the wood and bark of the tree, uneconomic and likely to run the copper content of the latex concentrates up. The rubber experts stressed this last disadvantage, since accidental spilling of copper sulfate in administering the injections would highly contaminate the latex.

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