

little the authors have written here would need to be withdrawn.

It is regrettable that an otherwise admirable book should be marred by an abundance of typographical and other minor errors. If this slipshod editorial work effected any economies in manufacture, they do not appear to have been passed on to the public.

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New Realms

Plant Marvels in Miniature. A photographic study. C. Postma. John Day, New York, 1961. 173 pp. Illus. \$12.50.

This handsome book, addressed to botanist and layman, consists mainly of 77 beautiful large photographs of botanical subjects, at magnifications of 2½ to 3300. Some are of microscope preparations of a type familiar to students in elementary botany, some of familiar plants in unfamiliar views and unfamiliar detail. All are technically excellent, and all reveal a beauty likely to be overlooked in such familiar objects viewed casually in natural size and undoubtedly overlooked as well by many reluctant students at microscopes, and even by some professors.

At the foot of each facing page are one or two or a dozen sentences of explanation and comment. Although this brief commentary cannot completely explain every intricate structure to someone with no background in botany, it can be for him a brisk course in botany and for others a stimulating review, mostly understandable to the novice and mostly factual, though here and there tinged with teleology. Such technical words as appear are mostly made clear by the context; a few could be omitted with no loss, and a few are not the terms commonly used. If the text is not of the same high quality as the photographs, it is still generally good; and this is primarily a book of photographs.

The plates are in ten groups called with slight artistic license, the structure of the plant, about grasses, the flower, spread of the seed (see cover of *Science*), the leaf, hairs of the plant, the stalk, wood, the root, and parasites. An intriguing group, for example, is the first, a series of four plates, at increasing magnifications, of a spiderwort (*Tradesc-*

antia): first a flower ($\times 7$), next a stamen with its many slender hairs ($\times 20$), then a few of these hairs, like strings of beads ($\times 175$), and finally a single cell of a staminal hair ($\times 1100$). Thus, effectively, the reader is brought at the start to a good starting point, the cell.

The author is a Dutch physician for whom plant photography has been a hobby for many years. At the back of the book are brief general notes on his photographic equipment and techniques and the data for each photograph. The short appreciative foreword is by Edwin Way Teale.

Altogether, this is a beautiful book that may arouse an interest in botany in some who lack it and should enhance the appreciation of the beauty of plants in botanists and nonbotanists alike. The laboratory in elementary botany could well have a copy at hand.

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Miscellaneous Publications

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

Arctic Aeromedical Laboratory. **Reports.** AAL TR 61-8, "An evaluation of an electronic location marker (SARAH) for arctic use," Glenn M. Stanley and J. M. Quashnock, 36 pp. AAL TR 57-22, "Point Hope, an Eskimo community in northwest Alaska, James W. Vanstone, 166 pp. The Laboratory, Fort Wainwright, Alaska, 1961.

Canada, National Research Council. **Review of the National Research Council, 1959.** Committee of the Privy Council on Scientific and Industrial Research. Queen's Printer and Controller of Stationery, Ottawa, Canada, 1959. 337 pp. \$0.75.

Florida State Museum. **Bulletin, Biological Sciences.** vol. 6, No. 1. "Postcranial osteology of the waterfowl," Glen E. Woolfenden, 129 pp., \$1.60. vol. 5, No. 7. "Subfamilies, genera, and species of Phytoseiidae (Acarina: Mesostigmata)," Martin H. Muma, illus., 34 pp., \$0.50. Univ. of Florida, Gainesville, 1961.

Geophysics Research Directorate. AFRL 637, **Annual Report, 1960**, 250 pp. AFRL 468, **Air Force Surveys in Geophysics**, No. 134, "Area-dosage relationships and time of tracer arrival in the Green Glow Program," William P. Elliott, R. J. Engelman, and Paul W. Nickola, 35 pp., 1961. AFRL-TR-60-280, **Geophysical Research Papers**, No. 71, "The chemistry and vertical distribution of atomic nitrogen in the upper atmosphere," Lewis E. Miller, 470 pp., 1960; No. 72, "A study of the pulsating growth of cumulus clouds," Charles E. Anderson, 147 pp., 1960. **Air Force Surveys in Geophysics**, No. 131, "An investigation of symbol coding for weather data transmission,"

Philip I. Hershberg, 41 pp., 1960. The Directorate, Air Force Cambridge Research Center Laboratories, Bedford, Mass.

Great Britain, Department of Scientific and Industrial Research. **Fuel Research 1917-1958**, 127 pp., \$2.80. **Water Pollution Research, 1960**, 128 pp., 7s. Her Majesty's Stationery Office, London, 1960.

India, Council of Scientific and Industrial Research. **Annual Technical Report 1959-60.** The Council, New Delhi, 1961. 440 pp.

U.S. Geological Survey. **Bulletin.** No. 1045-F, "Core logs from five test holes near Kramer, California," William K. Benda, R. C. Erd, and Ward C. Smith, pp. 319-393, plates and maps, 1960. No. 1072-J, "Reconnaissance geology of the Birney-Broadus coal field, Rosebud and Powder River counties, Montana," W. C. Warren, pp. 561-585, maps, 1959. No. 1072-N, "Stratigraphy of the Little Rocky Mountains and encircling foothills, Montana," pp. 723-752, maps, 1959. No. 1072-P, "Coal resources of Arkansas, 1954," Boyd R. Haley, pp. 795-831, maps, 1960. No. 1082-L, "Tertiary geology and oil-shale resources of the Piceance Creek Basin between the Colorado and White rivers, northwestern Colorado," pp. 835-891, plates and maps, 1961. No. 1085-C, "Botanical prospecting for uranium in the circle cliffs area, Garfield County, Utah," Frank J. Kleinhampl and Carl Koteff, pp. 85-104, maps, 1960. No. 1087-F, "Geology and ore deposits of the Kern River uranium area, California," E. M. MacKevett, Jr., pp. 169-222, plates and maps, 1960. No. 1087-H, "Geology of the clay hills area, San Juan County, Utah," Thomas E. Mullens, pp. 259-336, maps, 1960. No. 1091, "Investigations of some clay deposits in Washington and Idaho," John W. Hosterman, Vernon E. Scheid, Victor T. Allen, and I. G. Sohn, 147 pp., illus., charts, and maps, 1960. No. 1096-A, "Geology of the Grosvenor Quadrangle, Brown and Coleman counties, Texas," Robert T. Terriere, 34 pp. illus. and maps, 1960. No. 1104-A, "Erosion and related phenomena at Paricutin in 1957," Kenneth Segerstrom, 18 pp., maps, 1960. No. 1111-A, "Devonian Rugose corals from northern Maine," William A. Oliver, Jr., 22 pp., plates. No. 1116-A, "Geophysical abstracts 180, January-March, 1960," James W. Clarke, Dorothy B. Vitaliano, and Virginia S. Neuschel, 128 pp., \$0.40, 1960. No. 1116-B, "Geophysical abstracts 181, April-June, 1960," James W. Clarke, Dorothy B. Vitaliano, and Virginia S. Neuschel, pp. 129-279, \$0.40, 1960. No. 1121-A, "Classification of Wisconsin glacial deposits in northeastern Ohio," George W. White, 1960. No. 1121-B, "Illinoian outwash in southeastern Pennsylvania," W. N. Lockwood and Harold Meisler, illus. and plates, 9 pp., 1960. No. 1146-A, "Geophysical abstracts 184, January-March, 1961," James W. Clarke, Dorothy B. Vitaliano, and Virginia S. Neuschel, 170 pp., \$0.40, 1961. Superintendent of Documents, GPO., Washington 25.

World Meteorological Organization. **Annual Report.** The Secretariat, WMO, Geneva, Switzerland, 1960. 141 pp. Illus.