

voted to a taxonomic survey, including Cyanophyta, Chrysophyta, Phaeophyta, Rhodophyta, Chlorophyta, Euglenophyta, Pyrrophyta, Cryptophyceae, Chloromonadophyceae, and colorless flagellates of uncertain position. There are brief accounts of the cytology, morphology, reproduction, and life histories of each group, followed by a systematic analysis to the level of representative genera. The last quarter of the book comprises an extensive and well-written review of algal ecology and a shorter chapter dealing with such interesting economic aspects as the significance of algae in fisheries and water-quality studies.

Those who are acquainted with Fott's careful research on microscopic freshwater algae have good reason to expect *Algenkunde* to be outstanding, but they may be disappointed. Any book that is intended to cover so vast a field in so few pages is bound to be seriously limited in its usefulness and reliability. The disproportionate allocation of space among the various divisions of algae reflects Fott's personal interests and experience, and the notable strength of the sections on Chrysophyta and Chlorophyta is balanced, unfortunately, by the weakness of the sections on other groups. The marine algae, for the most part, have not been updated beyond Oltmanns (1922-23). There is not sufficient information about individual types of algae to enable *Algenkunde* to serve as a textbook. On the other hand, the treatment is so superficial and the documentation so fragmentary that for English-speaking workers, at least, it offers no competition to Fritsch (1935, 1945) as a general reference. Curiously, the bibliographies are grossly incomplete: a check of literature citations in the text on Chlorophyta, for example, revealed that approximately half were not listed in the bibliography.

Despite these shortcomings, *Algenkunde* should prove useful to specialists and advanced students.

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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.)

Admission Requirements of American Medical Colleges (Including Canada). 1960-61. Helen Hofer Gee and E. Shepley Nourse, Eds. Assoc. of American

Medical Colleges, Evanston, Ill., 1960. 241 pp. \$2.

Bulletin of the British Museum (Natural History). *Entomology*, vol. 9, No. 4, "The African species of the genus *Cheumatopsyche* (Trichoptera, Hydropsychidae and the Ephemeroptera types of species described by A. E. Eaton, R. McLachlan, and F. Walker," D. E. Kimmins, 66 pp., 25s; vol. 9, No. 5, "The *Jamides Euechylas* complex (Lepidoptera: Lycaenidae)," G. E. Tite, 17 pp., 8s; *Zoology*, vol. 6, No. 7, "The ecology and taxonomy of some Angola birds (based on a collection made in 1957)," B. P. Hall, 86 pp., 40s. British Museum (Natural History), London, 1960.

The Comparative Pharmacology of Some Psychotropic Drugs. Erik Jacobsen. World Health Organization, Geneva, Switzerland, 1960. 82 pp. Reprinted from *Bulletin of the World Health Organization* 21, 411.

Comparison of 1960 Cooperative and Regular Graduate NSF Candidates and Awardees. Herbert Soldz. Tech. Rept. No. 17. Office of Scientific and Technical Personnel, National Academy of Sciences-National Research Council, Washington, D.C., 1960. 32 pp.

Excavaciones Arqueologicas en San Pablo. Informe preliminar. Carlos Zevallos Menendez and Olaf Holm. Olaf Holm, Casilla 49-96, Guayaquil, Ecuador, 1960. 42 pp.

Field Museum of Natural History, Botanical Series. vol. 1, No. 2, part 1, No. 2, "Flora of Peru." J. Francis Macbride, Chicago Natural History Museum, Chicago, Ill., 1960. \$1.75. 98 pp.

Guide to U.K.A.E.A. Documents. J. Roland Smith, Ed. United Kingdom Atomic Energy Authority, London, ed. 2, 1960 (order from British Information Services, 45 Rockefeller Plaza, New York). 32 pp. \$0.32.

Human Factors at Extreme Altitudes: Synopsis and Bibliography. Frank W. Banghart and Evan G. Pattishall. Air Research and Development Headquarters and Division of Educational Research, University of Virginia, Charlottesville, 1960. 111 pp.

Impact of College. New dimensions in higher education, No. 4. Mervin B. Freedman. U.S. Office of Education, Washington, D.C., 1960 (order from Supt. of Documents, GPO, Washington 25). 27 pp. \$0.15.

Industry Aids to Education. First annual report. New England School Development Council, 20 Oxford St., Cambridge, Mass., 1960. 46 pp.

International Atomic Energy Agency. Disposal of Radioactive Wastes. vol. 2. Conference proceedings, Monaco, 16-21 November 1959. 575 pp. \$6. **Use of Radioisotopes and Supervoltage Radiation—in Radioteletherapy.** Present status and recommendations. Report and background information for a study group convened by the IAEA and WHO. 88 pp. \$1.50. International Publications, New York 22, 1960.

Modern Foreign Languages in the Elementary School. Teaching techniques. Elizabeth Keese. U.S. Office of Education, Washington, D.C., 1960 (order from

Supt. of Documents, GPO, Washington 25). 65 pp. \$0.45.

National Research Council of Canada. Report on University Support for Science, Engineering, and Medicine for the 43rd Year of Operation 1959-60. National Research Council of Canada, Ottawa, 1960. 224 pp. \$0.50. Support for research at Canadian universities reached a total of \$9.37 million in 1959-60, an increase of \$2.62 million over 1958-59 and \$6.25 million over 1955-56.

Notas de Fisica. vol. 6. No. 2, "Inversion operations in quantum field theory," J. L. Lopes, 121 pp.; No. 3, "On the finite dimensionality of every irreducible unitary representation of a compact group," Leopoldo Nachbin, 6 pp.; No. 4, "Angular distribution of the reaction ${}^9\text{Be}({}^7\text{Li}, {}^7\text{Li}) {}^9\text{Be}$," L. Marquez and C. Redon, 10 pp. Centro Brasileiro de Pesquisas Físicas, Rio de Janeiro, Brazil, 1960.

Nuclear Science Series. NAS-NS 3014, "The radiochemistry of indium." D. N. Sunderman and C. W. Townley. National Academy of Science-National Research Council, Washington 25, 1960 (order from Office of Technical Services, Dept. of Commerce, Washington 25). 46 pp. \$0.50.

Paleozoic Solenoporaceae and Related Red Algae. Quarterly of the Colorado School of Mines, vol. 55, No. 3. J. Harlan Johnson. Colorado School of Mines, Golden, 1960. 77 pp. \$1.25.

Proceedings of the California Academy of Sciences, vol. 31, No. 7, "First records of the Echineidid fish *Remilegia australis* (Bennett) from California, with meristic data." W. I. Follett and Lillian J. Dempster. The Academy, San Francisco, Calif., 1960. 15 pp.

The Refractive Index of Air for Radio Waves and Microwaves. National Physical Laboratory, Department of Scientific Research, Teddington, Middlesex, England. 27 pp. Tables are based on formulas derived by L. Essen and K. D. Froome at the laboratory.

Research in School and College Personnel Services. Summaries of unpublished studies, September 1956-September 1958. Paul Macminn and Carroll H. Miller, and Frank E. Wellman. U.S. Office of Education, Washington, D.C., 1960 (order from Supt. of Documents, GPO, Washington 25). 136 pp. \$0.55.

The Subject Matter Preparation of Elementary and Secondary School Teachers. Proceedings of the 30th annual conference of teacher education, University of Minnesota, 9-12 December 1959. College of Education, Univ. of Minnesota; Commission on Teacher Education and Professional Standards, National Education Assoc.; and the Minnesota Education Assoc. College of Education, Univ. of Minnesota, Minneapolis, 1960. 174 pp.

Testing and Taming of Nuclear Weapons. No. 303. David R. Inglis. Public Affairs Pamphlets, New York 16, 1960. 28 pp. \$0.25.

University of California Publications in Zoology, vol. 67, No. 2, "An analysis of intraspecific variation in the kangaroo rat *Dipodomys merriami*." William Z. Lickicker, Jr. Univ. of California Press, Berkeley, 1960. 88 pp. \$2.