

general education; and second, the methods of using the present compilation to improve such general education. Then the major part of the book (122 pages) lists these goals as actions (for example, "uses the typewriter or writes well enough to meet his needs"). Listings of the general behaviors are followed not only by long lists of such illustrative, or more specific, behaviors but also by lists of "developmental equivalents" which are expected of younger or less mature students.

This is a remarkably useful collection that discusses more specific goals than most teachers have ever been asked to formulate for themselves. An honest appraisal of any high-school curriculum against these criteria will be both revealing and rewarding. The greatest danger is that a faculty may become so fascinated that it accepts *general education* as equivalent to all of education, and *behavioral goals* as the only goals of learning. Some goals may be more in the mind than evident in behavior.

In the book there is a fairly specific denial of the possibility that knowledge can be of value for its own sake and an apparent unawareness that some goals now unexpressed or even unrecognized might occur to a person of imagination as a result of his having acquired much knowledge of a subject in which he was informed and interested. It seems far too optimistic to expect all the troubles in schools to disappear if the schools could but become "behavioral-centered." Perhaps science and mathematics overlap general education less than some other subjects do, and learning in these areas is less often reflected in obviously overt behavior. For all areas of knowledge, however, it is profitable to state our purposes as specifically as possible, and this book supplies a generous number of thoughtfully formulated goals.

HENRY W. SYER

Boston University

New Books

Diseases of Tobacco. George B. Lucas. Scarecrow Press, New York, 1958. 506 pp. \$10.

The Evil Eye. Edward S. Gifford, Jr. Macmillan, New York, 1958. 216 pp. \$4.95.

Chemical Aspects of Ecology in Relation to Agriculture. Research Monogr. 1, Publ. 1015. Hubert Martin. Science Service Laboratory, Canada Department of Agriculture, Ottawa, 1958. 96 pp. \$3.

Proceedings of the Rehovoth Conference on Nuclear Structure. Held at the Weizmann Institute of Science, Rehovoth, 8-14 Sept. 1957, under the auspices of the International Union of Pure and Applied Physics. H. J. Lipkin, Ed. North-Holland, Amsterdam; Interscience, New York, 1958. 630 pp. \$12.50.

Infrared Absorption Spectra of Steroids. An atlas. vol. II. Glyn Roberts, Beatrice S. Gallagher, R. Norman Jones. Interscience, New York, 1958. 103 pp. and charts 309-760. \$20.

The Role of Solid State Phenomena in Electric Circuits. Proceedings of the symposium sponsored by Polytechnic Institute of Brooklyn, Microwave Research Institute. vol. 7. Interscience, New York, 1957. 356 pp. \$5.

Analytic Geometry. Edwin J. Purcell. Appleton-Century-Crofts, New York, 1958. 299 pp. \$4.50.

Year Book of the Royal Society of London, 1958. Royal Society of London, London, 1958. 367 pp.

The Planet Jupiter. Bertrand M. Peek. Macmillan, New York, 1958. 283 pp. \$8.50.

Gaseous Conductors. Theory and engineering applications. James Dillon Cobine. Dover, New York, rev. ed. 1, 1958. 625 pp. \$2.75.

Figures. More fun with figures. J. A. H. Hunter. Oxford University Press, New York, 1958. 127 pp. \$3.50.

Colorimetric Determination of Non-metals. David F. Boltz, Ed. Interscience, New York, 1958. 384 pp. \$8.50.

Gas Dynamics. Ali Bulent Cambel and Burgess H. Jennings. McGraw-Hill, New York, 1958. 428 pp. \$11.

Population Studies: Animal Ecology and Demography. Cold Spring Harbor Symposia on Quantitative Biology and Demography, vol. XXII. Biological Laboratory, Cold Spring Harbor, N.Y., 1957. 451 pp. \$8.

Control of the Plant Environment. Proceedings of the University of Nottingham Fourth Easter School in Agricultural Science, 1957. J. P. Hudson, Ed. Academic Press, New York; Butterworths, London, 1957. 256 pp. \$7.50.

Quantum Mechanics of One- and Two-Electron Atoms. Hans A. Bethe and Edwin E. Salpeter. Academic Press, New York; Springer, Berlin, 1957. 376 pp. \$10.

Proceedings of the Fourth International Conference on Soil Mechanics and Foundation Engineering. London, 12-24 Aug. 1957. vols. 1 and 2 (vol. 3 in press). Butterworths, London, 1957 (order from Interscience, New York). 466 pp.; 467 pp. \$79.50 for 3 volumes.

Connective Tissue. A symposium organized by the Council for International Organizations of Medical Sciences. R. E. Tunbridge, Madeline Keech, J. F. Delafresnaye, G. C. Wood, Eds. Thomas, Springfield, Ill., 1957. 371 pp. \$8.50.

Introductory Plant Science. Henry T. Northen. Ronald, New York, ed. 2, 1958. 730 pp. \$6.75.

The Impact of the Antibiotics on Medicine and Society. Monogr. II, Institute of Social and Historical Medicine. Iago Galdston, Ed. International Universities Press, New York, 1958. 232 pp. \$5.

Tuberculosis in White and Negro Children. vol. I, *The Roentgenologic Aspects of the Harriet Lane Study*, Janet B. Hardy, 122 pp., \$7.50; vol. II, *The Epidemiologic Aspects of the Harriet Lane Study*, Miriam E. Brailey, 103 pp., \$4.50. Harvard Univ. Press (for the Commonwealth Fund), Cambridge, Mass., 1958.

Miscellaneous Publications

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

Decennial Review Conference on Tissue Culture, Proceedings. Woodstock, Vt., 8-12 Oct. 1956. Philip R. White. National Institutes of Health, Bethesda, Md. (reprinted from *J. Natl. Cancer Inst.* vol. 19, No. 4; (order from Philip R. White, Jackson Laboratory, Bar Harbor, Me.). 377 pp. \$4.

Measurement of Air Pollution. Recommended methods for deposited matter, smoke, and sulphur dioxide. Department of Scientific and Industrial Research, London, 1957. 28 pp. 2s.

Radium-Isodosen. Die radiumdosierung in „r“. August Verlag. Thieme, Stuttgart, 1958. 102 pp. \$4.65.

Civil Air Regulations and Flight Standards for Pilots. Associated Aeronautical Staff. Aero, Los Angeles, ed. 19, 1958. 96 pp. and supplements.

Central Wyoming Phosphate Rock. Character, processing and economics. Bull. No. 6. Walter E. Duncan and H. G. Fisk. Natural Resources Research Institute, University of Wyoming, Laramie, 1957. 60 pp.

Workbook for Field Biology and Ecology. Allen H. Benton and William E. Werner, Jr. Burgess, Minneapolis, 1957. 268 pp. \$2.75.

Manual of Mammalogy. E. Lendell Cockrum. Burgess, Minneapolis, 1955. 160 pp. \$4.

Fundamental Concepts of Mathematics. R. H. Moorman. Burgess, Minneapolis, ed. 2, 1955. 92 pp. \$2.75.

A Method for Specification of Sand for Beach Fills. Tech. Memo. No. 102, 100 pp.; *Model Study of Wave Refraction*, Tech. Memo. No. 103, 30 pp.; *The Mechanics of the Motion of Discrete Spherical Bottom Sediment Particles Due to Shoaling Waves*, Tech. Memo. No. 104. 62 pp. Beach Erosion Board, Corps of Engineers, Washington, 25, 1958.

Use of Specifications for Pharmaceutical Preparations. WHO Tech. Rept. Ser., No. 138. 29 pp. \$0.30. *African Conference on Bilharziasis.* Brazzaville, French Equatorial Africa, 26 Nov.-8 Dec. 1956. WHO Tech. Rept. Ser. No. 139. 42 pp. \$0.30. World Health Organization, Geneva, Switzerland, 1957.

Genetics and the Races of Man. William C. Boyd. Boston University Press, Boston, 1958. 20 pp. \$0.50.

Nouveau Levé Magnétique de la Belgique. pt. 1. E. Lahaye, L. Koenigsfeld, A. de Vuyst, E. Hoge. Institut Royal Meteorologique de Belgique, Koninklijk Meteorologisch Instituut van België, Brussels, 1957. 95 pp.

Spectrochemical Abstracts. vol. V. 1952-1953. Ernest H. S. van Someren and F. Lachman. Hilger & Watts, London, 1958. 66 pp. 20s.

A Study of Muscle Forces and Fatigue. WADC Tech. Rept. 57-586. ASTIA Document No. AD 131 089. Paul A. Hunsicker. Wright Air Development Center, Wright-Patterson Air Force Base, Ohio, 1957 (order from ASTIA Document Service Center, Knott Building, Dayton 2, Ohio). 47 pp.