wrong? He was no chemist; he had not studied the specimens; his belief in the existence of Precambrian life was both valid and later vindicated. One might as well apologize for Copernicus because planetary orbits aren't circular.

The prospective bias is especially inappropriate in Huxley's case because he immersed himself so deeply in the issues of his day-and because he affected his own times so profoundly. Contemporary historians of science often distinguish an "internalist" from an "externalist" approach to their subject: the first treats the history of ideas much as an evolutionist studies phylogeny; the second emphasizes the interaction of science and society. Up to now, the internalist approach has generally prevailed. We are led, in its light, to measure greatness by the invention of ideas that serve as "ancestors" to large and successful branches in the evolutionary tree of human thought. On this criterion, Huxley must stand in the second rank. His early work on coelenterates set the basis for phyletic applications of germ-layer theory, and for the comparative embryology that dominated late-19th-century biology. His victory over Owen in the great hippocampus debate represented the first and greatest triumph for a Darwinian view of human origins. Yet much of his later research consisted of abstracts, albeit brilliant ones, for ambitious projects that remained uncompleted.

"Iffy history" may be a sterile pursuit; yet I have no doubt that Huxley would be the Newton of our textbooks if the externalist approach to the history of science had prevailed heretofore. I doubt that anyone, with the possible exception of Ernst Haeckel, ever attained such eminence and influence as a public spokesman for biology. Hundreds of millions of people were touched in the most direct way by his effortsfor whose influence is the greater: the man who invents an important theory or the man whose public addresses, private exhortations, and willingness to endure countless hours of soul-sapping committee work set the curricula of schools at all levels for generations to come? The theorist is exalted in the lofty treatises of future centuries; who, after all, reads the primers of the 1890's? But the spokesman translates ideas into action and sets their impact upon society. How can we deem one skill more important than the other? Huxley had abundant capacities for either role; he chose well. We should not judge him as Darwin's obedient, if ferocious, bulldog, but as a man of equal rank and different skills. "The great end of life," he once wrote ("Technical Education," 1877), "is not knowledge but action."

STEPHEN JAY GOULD Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts

Books Received

Atomic Physics. Proceedings of a conference, Boulder, Colo., Aug. 1972. Vol. 3. Stephen J. Smith and G. K. Walters, Eds. Plenum, New York, 1973. x, 676 pp., illus. \$29.50.

Behavior Influence and Personality. The Social Matrix of Human Action. Leonard Krasner and Leonard P. Ullmann. Holt, Rinehart and Winston, New York, 1973. xvi, 560 pp. \$11.

Contemporary Issues in Social Psychology. Lawrence S. Wrightsman and John C. Brigham, Eds. Brooks/Cole (Wadsworth), Monterey, Calif., ed. 2, 1973. xvi, 400 pp., illus. Paper, \$5.95.

A Course in Arithmetic. J.-P. Serre. Springer-Verlag, New York, 1973. x, 118 pp. Cloth, \$10.80; paper, \$7.80. Graduate Texts in Mathematics 7.

Display Use for Man-Machine Dialog. Proceedings of an institute, Erlangen, Germany, Mar. 1971. Wolfgang Händler and Joseph Weizenbaum, Eds. Crane Russak, New York, and Hanser, Munich, 1972. 264 pp., illus. \$15.50.

Ethical Issues in Human Genetics. Genetic Counseling and the Use of Genetic Knowledge. Proceedings of a symposium, Warrenton, Va., Oct. 1971. Bruce Hilton, Daniel Callahan, Maureen Harris, Peter Condliffe, and Burton Berkley, Eds. Plenum, New York, 1973. x, 456 pp., illus. \$14.95. Fogarty International Proceedings No. 13.

Fossils and the Life of the Past. Erich Thenius. Translated from the German edition (1963) by Barbara M. Crook. English Universities Press, London, and Springer-Verlag, New York, 1973. xii, 194 pp., illus. Paper, \$5.90. Heidelberg Science Library, vol. 14.

A Guide to Drug Eruptions. W. Bruinsma. Excerpta Medica, Amsterdam, 1973 (U.S. distributor, Elsevier, New York). viii, 104 pp. \$9.95.

Homology Theory. An Introduction to Algebraic Topology. James W. Vick. Academic Press, New York, 1973. xiv, 238 pp., illus. \$11.95. Pure and Applied Mathematics, vol. 53.

Hormone Receptors in the Brain. MSS Information Corporation, New York, 1973. 254 pp., illus. \$17.50.

Liver Regeneration. MSS Information Corporation, New York, 1973. 2 vols., illus. Vol. 1, 218 pp. \$15. Vol. 2, 214 pp. \$15.

MOS Integrated Circuit Design. E. Wolfendale, Ed. Halsted (Wiley), New York, 1973. viii, 120 pp., illus. \$13.75.

Neurohumoral and Metabolic Aspects of Injury. Proceedings of a symposium, Budapest, Aug. 1971. Arisztid G. B. Kovach, H. B. Stoner, and John J. Spitzer, Eds. Plenum, New York, 1973. xx, 666 pp., illus. \$32.50. Advances in Experimental Medicine and Biology, vol. 33.

Nonrelativistic Mechanics. Robert J. Finkelstein. Benjamin, Reading, Mass., 1973. xviii, 394 pp., illus. Cloth, \$19.50; paper, \$9.50. Modern Physics Monograph Series.

Particle Growth in Suspensions. Proceedings of a symposium, Uxbridge, England, Apr. 1972. A. L. Smith, Ed. Academic Press, New York, 1973. viii, 306 pp., illus. \$19.50.

Psychoanalytic Sociology. An Essay on the Interpretation of Historical Data and the Phenomena of Collective Behavior. Fred Weinstein and Gerald M. Platt. Johns Hopkins University Press, Baltimore, 1973. xiv, 124 pp. Cloth, \$8.50; paper, \$2.50.

Psychopharmacology. An Introduction to Experimental and Clinical Principles. Luigi Valzellie. Spectrum, Flushing, N.Y., 1973 (distributor, Halsted [Wiley], New York). x, 272 pp., illus. \$14.95. Spectrum Monographs in Modern Neurobiology.

The Relation of Aging to Immunity. MSS Information Corporation, New York, 1973. 152 pp., illus. \$15.

Risk—Trust—Love. Learning in a Humane Environment. William D. Romey. Merrill (Bell and Howell), Columbus, Ohio, 1972. xvi, 284 pp., illus. Paper, \$4.50. Studies of the Person.

SV-40 Viruses. MSS Information Corporation, New York, 1973. 184 pp., illus. \$15.

SV-40 Viruses. Molecular Structure. MSS Information Corporation, New York, 1973. 156 pp., illus. \$15.

The Science and Technology of Superconductivity. Proceedings of a course, Washington, D.C., Aug. 1971. W. D. Gregory, W. N. Mathews, Jr., and E. A. Edelsack, Eds. Plenum, New York, 1973. 2 vols., illus. Vol. 1, x pp. + pp. 1–428 + index. Vol. 2, xii pp. + pp. 433–816. Each vol., \$22.50.

Thermal Diffusity. Y. S. Touloukian, R. W. Powell, C. Y. Ho, and M. C. Nicolaou. IFI/Plenum, New York, 1973. xxvi, 736 pp., illus. \$50. Thermophysical Properties of Matter, vol. 10.

Thymus Involvement in Immunity and Disease. MSS Information Corporation, New York, 1973. 238 pp., illus. \$15.

Tissue Typing and Organ Transplantation. Proceedings of a symposium, Minneapolis, May 1970. Edmond J. Yunis, Richard A. Gatti, and D. Bernard Amos, Eds. Academic Press (Harcourt Brace Jovanovich), New York, 1973. xii, 480 pp., illus. \$16.50.

Transformation of Tissue Culture Cells by SV-40 Viruses. MSS Information Corporation, New York, 1973. 194 pp., illus. \$15.

Unravelling Social Policy. Theory, Analysis, and Political Action towards Social Equality. David G. Gil. Schenkman, Cambridge, Mass., 1973 (distributor, General Learning Press, Morristown, N.J.). xviii, 172 pp. Cloth, \$6.95; paper, \$3.65.