

studies of clams, a modest phenetic analysis of clam anatomy by Purchon, and J. A. Allen's intriguing review of the deep-sea protobranchs. Only the superficial remarks of Bass on the number of higher categories in the Bivalvia, which ignore the complexities and length of evolution, give no new evidence or interpretations, thus falling well below the standard of the other contributions.

Most of the studies involve some aspect of morphology, with updated accounts of structures in the hinge (Morris), ligament (Yonge and Waller), and gills (Owen) added to descriptions of changes through time (many authors). All of these extend our knowledge considerably. Only one paper, on local variation in protein polymorphism, attempts to integrate biochemical aspects, indicating a major open area for investigation.

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## Books Received

**Active and Passive Thin Film Devices.** T. J. Coutts, Ed. Academic Press, New York, 1978. xxiv, 858 pp., illus. \$124.25.

**Activity, Consciousness, and Personality.** A. N. Leont'ev. Translated from the Russian edition by Marie J. Hall. Prentice-Hall, Englewood Cliffs, N.J., 1978. vi, 186 pp. \$15.95.

**Advances in Applied Microbiology.** Vol. 24. D. Perlman, Ed. Academic Press, New York, 1978. xii, 292 pp., illus. \$24.50.

**Advances in Computers.** Vol. 17. Marshall C. Yovits, Ed. Academic Press, New York, 1978. xvi, 334 pp., illus. \$31.

**Advances in Electronics and Electron Physics.** Vol. 47. L. Marton and Claire Marton, Eds. Academic Press, New York, 1978. xii, 346 pp., illus. \$36.

**Aging and Biological Rhythms.** Papers from a conference, St. Petersburg and Bay Pines, Fla., Apr. 1977. Harvey V. Samis, Jr., and Salvatore Capobianco, Eds. Plenum, New York, 1978. x, 342 pp., illus. \$35. Advances in Experimental Medicine and Biology, vol. 108.

**Behavior of Captive Wild Animals.** Hal Markowitz and Victor J. Stevens, Eds. Nelson-Hall, Chicago, 1979. viii, 316 pp., illus. \$15.95.

**Behavioural Ecology.** An Evolutionary Approach. J. R. Krebs and N. B. Davies. Sinauer, Sunderland, Mass., 1978. xii, 494 pp., illus. Cloth, \$34; paper, \$17.50.

**Beyond the Age of Waste.** A Report to the Club of Rome. D. Gabor and U. Colombo with A. King and R. Galli. Pergamon, New York, 1978. xviii, 238 pp., illus. Cloth \$25; paper, \$12.50. Pergamon International Library.

**Bibliography on Racism, 1972-1975.** Vol. 2. National Institute of Mental Health, Rockville, Md., 1978 (available from the Superintendent of Documents, Washington, D.C.). vi, 408 pp. + indexes. Paper, \$8.65. DHEW Publication No. (ADM) 78-318.

**Biochemistry and Genetics of Yeasts.** Pure and Applied Aspects. Proceedings of a symposium, São Paulo, Brazil, Dec. 1977. Metry

Bacila, Bernard L. Horecker, and Andrés O. M. Stoppani, Eds. Academic Press, New York, 1978. xx, 594 pp., illus. \$27.50.

**Biochemistry of Thermophily.** Papers from a seminar, Honolulu, June 1977. S. Marvin Friedman, Ed. Academic Press, New York, 1978. xiv, 400 pp., illus. \$24.

**The Biologic Ages of Man.** From Conception through Old Age. David W. Smith, Edwin L. Bierman, and Nancy M. Robinson, Eds. Saunders, Philadelphia, ed. 2, 1978. xx, 280 pp., illus. Paper, \$9.95.

**Biological Magnetic Resonance.** Vol. 1. Lawrence J. Berliner and Jacques Reuben, Eds. Plenum, New York, 1978. xiv, 346 pp., illus. \$35.

**Cancer Chemotherapy.** Vol. 1, Reasons for Success and Failure in Treatment of Murine Leukemias with the Drugs Now Employed in Treating Human Leukemias. Howard E. Skipper. Published for American Society of Clinical Oncology by University Microfilms International, Ann Arbor, Mich., 1978. xviii, 166 pp., illus. Paper, \$13.50.

**The Care of the Drug Dependent Pregnant Woman and Her Infant.** Enrique M. Ostrea with Cleofe J. Chavez and Joan C. Stryker. Michigan Department of Public Health, Lansing, 1978. xii, 84 pp. Paper, \$2.

**Cell-Cell Recognition.** Papers from a symposium, Oxford, England, Aug. 1977. Published for the Society for Experimental Biology by Cambridge University Press, New York, 1978. viii, 478 pp., illus. + plates. \$48.50. Symposia of the Society for Experimental Biology, No. 32.

**Cell Reproduction.** In Honor of Daniel Mazia. Proceedings of a symposium, Keystone, Colo., Mar. 1978. Ellen R. Dirksen, David M. Prescott, and C. Fred Fox, Eds. Academic Press, New York, 1978. xvii, 712 pp., illus. \$31. ICN-UCLA Symposia on Molecular and Cellular Biology, vol. 12.

**Computer Modeling of Matter.** Papers from a symposium, Anaheim, Calif., Mar. 1978. Peter Lykos, Ed. American Chemical Society, Washington, D.C., 1978. xii, 272 pp., illus. \$24. ACS Symposium Series, 86.

**Conquering Cancer.** Lucien Israël. Translated from the French edition (Paris, 1976) by Joan Pinkham. Random, New York, 1978. xviii, 218 pp. \$10.

**Conservation and Agriculture.** Papers from a symposium, Birmingham, England, Sept. 1975. J. G. Hawkes, Ed. Allanheld, Osmun, illus. \$24. LandMark Studies.

**Contemporary Topics in Molecular Immunology.** Vol. 7. R. A. Reisfeld and F. P. Inman, Eds. Plenum, New York, 1978. xxii, 426 pp., illus. \$39.50.

**Cook Voyage Artifacts in Leningrad, Berne, and Florence Museums.** Adrienne L. Kaeppler, Ed. Bishop Museum Press, Honolulu, 1978. x, 186 pp., illus. Paper, \$15. Bernice P. Bishop Museum Special Publication 66.

**Coral Reefs.** Research Methods. D. R. Stoddart and R. E. Johannes, Eds. UNESCO, Paris, 1978 (U.S. distributor, Unipub, New York). xvi, 582 pp., illus. \$30. Monographs on Oceanographic Methodology 5.

**Correlation Analysis in Chemistry.** Recent Advances. N. B. Chapman and J. Shorter, Eds. Plenum, New York, 1978. xiv, 546 pp., illus. \$49.50.

**Current Topics in Hematology.** Vol. 1. Sergio Piomelli and Stanley Yachnin, Eds. Liss, New York, 1978. xii, 236 pp., illus. \$24.

**The Development of Social Understanding.** Joseph Glick and K. Alison Clarke-Stewart, Eds. Gardner Press, New York, 1978 (distributor, Halsted [Wiley], New York). xii, 288 pp.

\$19.95. Studies in Social and Cognitive Development, vol. 1.

**Developmental and Cellular Skeletal Biology.** Brian K. Hall. Academic Press, New York, 1978. x, 304 pp., illus. \$21.

**Developmental Processes.** Heinz Werner's Selected Writings. Sybil S. Barten and Margery B. Franklin, Eds. International Universities Press, New York, 1978. Two volumes, illus. Vol. 1, General Theory and Perceptual Experience. xviii, 250 pp. Vol. 2, Cognition, Language, and Symbolization. viii + pp. 251-562. \$35.

**Energetics and Structure of Halophilic Microorganisms.** Proceedings of a workshop, Rehovot, Israel, May 1978. S. Roy Caplan and Margaret Ginzburg, Eds. Elsevier/North-Holland New York, 1978. xxii, 672 pp., illus. \$71.25. Developments in Halophilic Microorganisms, vol. 1.

**Energy Conservation and Economic Growth.** Papers from an AAAS symposium, Washington, D.C., Feb. 1978. Charles J. Hitch, Ed. Published for the American Association for the Advancement of Science by Westview Press, Boulder, Colo., 1979. xvi, 168 pp., illus. \$13.75. AAAS Selected Symposia Series, 22.

**Energy Handbook.** Robert R. Loftness. Van Nostrand Reinhold, New York, 1978. viii, 742 pp., illus. \$47.50.

**Environment, Technology, and Health.** Human Ecology in Historical Perspective. Merrill Eisenbud. New York University Press, New York, 1979. x, 384 pp., illus. \$19.50.

**From Guns to Butter.** Technology Organizations and Reduced Military Spending in Western Europe. Bernard Udis. Ballinger (Lippincott), Cambridge, Mass., 1978. viii, 370 pp. \$20.

**Functional Equations in Economics.** Wolfgang Eichhorn. Addison-Wesley Advanced Book Program, Reading, Mass., 1978. xx, 260 pp. Cloth, \$28.50; paper, \$16.50. Applied Mathematics and Computation, No. 11.

**Fundamentals in Cancer Chemotherapy.** Papers from a congress, Zurich, Sept. 1977. F. M. Schabel, Jr., Ed. Karger, Basel, 1978. viii, 304 pp., illus. \$52.75. Antibiotics and Chemotherapy, vol. 23.

**General Systems Theory Applied to Nursing.** Arlene M. Putt. Little, Brown, Boston, 1978. xiv, 196 pp. \$9.95.

**Ions in Macromolecular and Biological Systems.** Proceedings of a symposium, Bristol, England, Apr. 1977. D. H. Everett and B. Vincent, Eds. University Park Press, Baltimore, 1978. xiv, 348 pp., illus. \$39.50. Colston Papers, vol. 29.

**Kangaroo Rats.** Intraspecific Variation in *Dipodomys spectabilis* and *Dipodomys deserti* Stephens. Iyad A. Nader. University of Illinois Press, Urbana, 1978. xii, 116 pp., illus. Paper, \$12.50. Illinois Biological Monographs 49.

**Laboratory Science and Art for Blind, Deaf, and Emotionally Disturbed Children.** A Mainstreaming Approach. Doris E. Hadary and Susan Hadary Cohen. University Park Press, Baltimore, 1978. xvi, 384 pp., illus. \$24.50.

**Laminar Flow Forced Convection in Ducts.** A Source Book for Compact Heat Exchanger Analytical Data. R. K. Shah and A. L. London. Academic Press, New York, 1978. xiv, 478 pp., illus. \$49.50. Advances in Heat Transfer, Supplement 1.

**Multiobjective Programming and Planning.** Jared L. Cohon. Academic Press, New York, 1978. xiv, 334 pp., illus. \$23. Mathematics in Science and Engineering, vol. 140.

(Continued on page 1439)

## BOOKS RECEIVED

(Continued from page 1404)

**Murmurs of Earth.** The Voyager Interstellar Record. Carl Sagan, F. D. Drake, Ann Druyan, Timothy Ferris, Jon Lomberg, and Linda Salzman Sagen. Random, New York, 1978. xii, 276 pp., illus. \$15.

**Muskeg and the Northern Environment in Canada.** By the Muskeg Subcommittee of the NRC Associate Committee on Geotechnical Research. N. W. Radforth and C. O. Brawner, Eds. University of Toronto Press, Buffalo, N.Y., 1977. xii, 400 pp., illus. + plates. \$35.

**An Overture to Social Anthropology.** Robert F. Murphy. Prentice-Hall, Englewood Cliffs, N.J., 1979. vi, 218 pp. Paper, \$7.95.

**The Paranormal.** Stan Gooch. Harper and Row, New York, 1979. vi, 314 pp., illus. \$10.

**Perception and Cognition.** Issues in the Foundations of Psychology. Papers from a conference, Minneapolis, June 1975. C. Wade Savage, Ed. University of Minnesota Press, Minneapolis, 1978. x, 502 pp., illus. \$25.

**Persistent Viruses.** Proceedings of a symposium, Keystone, Colo., Feb. 1978. Jack G. Stevens, George J. Todaro, and C. Fred Fox, Eds. Academic Press, New York, 1978. xii, 820 pp., illus. \$35. ICN-UCLA Symposia on Molecular and Cellular Biology, vol. 11.

**Perspectives in Interactional Psychology.** Lawrence A. Pervin and Michael Lewis, Eds. Plenum, New York, 1978. xvi, 336 pp. \$20.

**Psychology and Biology of Language and Thought.** Essays in Honor of Eric Lenneberg. Papers from a conference, Ithaca, N.Y., May 1976. George A. Miller and Elizabeth Lenneberg, Eds. Academic Press, New York, 1978. xiv, 294 pp., illus. \$19.50.

**The Pure Theory of International Trade and Distortions.** Bharat R. Hazari. Halsted (Wiley), New York, 1978. xii, 206 pp., illus. \$22.50.

**Quantitative Enzyme Immunoassay.** E. Engvall and A. J. Pesce, Eds. Blackwell, Oxford, England, 1978 (U.S. distributor, University Park Press, Baltimore). vi, 130 pp., illus. \$24.75. *Scandinavian Journal of Immunology*, Supplement No. 7, Vol. 8.

**QuSAR.** Quantitative Structure Activity Relationships of Analgesics, Narcotic Antagonists, and Hallucinogens. Papers from a meeting, Silver Spring, Md., April 1978. Gene Barnett, Milan Trsic, and Robert E. Willette, Eds. National Institute on Drug Abuse, Rockville, Md., 1978 (available from National Clearinghouse for Drug Abuse Information, Rockville, Md.). viii, 314 pp., illus. Paper. NIDA Research Monograph 22.

**Receptors and Recognition.** Series A. Vol. 6. P. Cuatrecasas and M. F. Greaves, Eds. Chapman and Hall, London, and Halsted (Wiley), New York, 1978. x, 200 pp., illus. \$27.50.

**Recombinant DNA Research.** Vol. 3, Documents Relating to "NIH Guidelines for Research Involving Recombinant DNA Molecules," November 1977–September 1978. National Institutes of Health, Bethesda, Md., 1978 (available from the Superintendent of Documents, Washington, D.C.). Two volumes. vi, 608 pp.; and appendices, variously paged. Paper, \$1.50. DHEW publications No. (NIH) 78-1843/-1844.

**Retrieval of Medicinal Chemical Information.** Based on symposium, Anaheim, Calif., Mar. 1978. American Chemical Society, Washington, D.C., 1978. viii, 232 pp., illus. \$23. ACS Symposium Series 84.

**Scholars as Managers.** Or How Can the Managers Do It Better? Report of a workshop on management techniques in archeology. Alice W. Portnoy, Ed. Interagency Archeological Services, U.S. Department of the Interior, Washington, D.C., 1978. viii, 212 pp., illus. + figures. Paper.

**Science on the Move.** Some Research Activities in the Netherlands. Government Publishing Office, The Hague, 1978 (available from Informational Department, Ministry of Education and Science, The Hague). 172 pp., illus. Paper.

**Seeing and Hearing and Space and Time.** N. O'Connor and B. Hermelin. Academic Press, New York, 1978. viii, 158 pp., illus. \$14.

**Selected Papers.** Shih-shen Chern. Springer-Verlag, New York, 1978. xxxii, 476 pp. \$24.80.

**Sustained and Controlled Release Drug Delivery Systems.** Joseph R. Robinson, Ed. Dekker, New York, 1978. xii, 774 pp., illus. \$19.95. *Drugs and the Pharmaceutical Sciences*, vol. 6.

**System Modelling and Control.** J. Schwarzenbach and K. F. Gill. Halsted (Wiley), New York, 1978. x, 230 pp., illus. Paper, \$14.95.

**Theory of Science.** An Introduction to the History, Logic and Philosophy of Science. George Gale. McGraw-Hill, New York, 1978. xviii, 298 pp., illus. \$10.95.

**Thermodynamique et Biologie.** Tome 2, L'Ordre Issu du Hasard. Jacques Tonnelat. Maloine, Paris, 1978. x, 240 pp., illus. paper, 90 F. *Recherches Interdisciplinaires*.

**Thin Film Processes.** John L. Vossen and Werner Kern, Eds. Academic Press, New York, 1978. xii, 564 pp., illus. \$49.50.

**Threatened Deer.** Proceedings of a meeting, Longview, Wash., Sept. 1977. International Union for Conservation of Nature and Natural Resources, Morges, Switzerland, 1978. 434 pp., illus. Paper, \$18.

**To the Red Planet.** Eric Burgess. Columbia University Press, New York, 1978. x, 182 pp., illus. \$19.95.

**Topics in Antibiotic Chemistry.** Vol. 2, Antibiotics from Marine Organisms, Oligosaccharides, Anthracyclines and Their Biological Receptors. P. G. Sammes, Ed. Horwood, Chichester, England, and Halsted (Wiley), New York, 1978. 284 pp., illus. \$42.50.

**Topics in Functional Analysis.** Essays Dedicated to M. G. Krein on the Occasion of His 70th Birthday. I. Gohberg and M. Kac, Eds. Academic Press, New York, 1978. xxii, 396 pp. \$41. *Advances in Mathematics Supplementary Studies*, vol. 3.

**Water.** Planets, Plants and People. Papers from a symposium, Canberra, Apr. 1977. A. K. McIntyre, Ed. Australian Academy of Science, Canberra City, 1978. iv, 184 pp., illus. Paper, A\$3.95.

**Why Not Say It Clearly.** A Guide to Scientific Writing. Lester S. King. Little, Brown, Boston, 1978. xii, 186 pp. Paper, \$5.95.

**The Wild Boy of Burundi.** A Study of an Outcast Child. Harlan Lane and Richard Pillard. Random, New York, 1979. xvi, 190 pp. + plates. \$10.

**Wind Power and Other Energy Options.** David Rittenhouse Inglis. University of Michigan Press, Ann Arbor, 1978. x, 298 pp., illus. Cloth, \$16; paper, \$8.50.

**Working with Light-Sensitive Materials.** Geoffrey Hindley. Van Nostrand Reinhold, New York, 1978. 96 pp., illus. Paper, \$7.95.

**World Change and World Security.** Norman C. Dahl and Jerome B. Weisner, Eds. MIT Press, Cambridge, Mass., 1978. xxxiv, 174 pp. \$14.95. MIT Bicentennial Studies.

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**Pharmacologist/Physiologist.** Ph.D. 1977. Broad background in mechanisms of inflammation and anti-inflammation as well as in chemical carcinogenesis and toxicity. Doctoral work in screening of anti-inflammatory agents. Postdoctoral (at present) in mechanisms of skin tumorigenesis using inflammatory mediators, tumor promoters, and anti-inflammatory agents both in vitro and in vivo. Desires research/management in government, industry, or other health-related places. BOX 185, SCIENCE. X

**Pharmacologist.** Ph.D., 15 years of industrial research and administration, primarily in psychopharmacology. Box 197, SCIENCE. X