

the present. The story of back-arc basin deposition would seem especially to need further sorting out, as does trench deposition, for these deposits are highly tectonized where they appear on dry land. As in other fields of geology, the imprint of plate tectonics as the ultimate control is clearly apparent in studies of sedimentation.

The book is well organized and nicely illustrated. Balance has been achieved by the addition of a few papers not presented at the original symposium. K. O. Emery has provided a foreword, and the editors have written both a preface and a final summing up—called by them an “appraisal and augury.” One does question, however, why the publishers chose to print this tome in coffee-table format on thick paper stock, thus making it overly large for its content. As a scholarly and specialized source book that updates one aspect of marine geology, it should find space not on a coffee table but rather on the shelves of those interested in sedimentology, oceanography, and petroleum geology.

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Plant Growth

Controlling Factors in Plant Development. HIROH SHIBAOKA, MASAKI FURUYA, MASAYUKI KATSUMI, and ATSUCHI TAKIMOTO, Eds. Botanical Society of Japan, Tokyo, 1978. x, 278 pp., illus. Paper, Y4100. Special Issue No. 1 of the *Botanical Magazine*.

This paperback volume is the first of a new “special issue” series from the Botanical Society of Japan designed for botanists and advanced students. The 14 papers are somewhat arbitrarily grouped into four sections. The first section, over-optimistically entitled Major Developmental Stages in Plant Life, begins with a theoretical discussion by P. F. Wareing of the application of the concept of determination, that is, progressive specialization through the restriction of developmental potential, to the development of plants. K. V. Thimann’s paper “Senescence” is a comprehensive and well-documented treatment of a subject that he has played an important role in developing.

In the second section, Metabolic Control, I. Takeuchi and colleagues describe their recent use of fluorescence-labeled antiserum as a marker of cell dif-

ferentiation in roller tube cultures of the slime mold *Dictyostelium discoideum*. N. Yanagishima presents evidence for a peptide “pheromone” that induces agglutinability in mating types of common yeast. A great deal of attention has been focused on the interaction of gibberellic acid A_3 with aleurone cells of grains in the hope that insight will be gained into the mechanism of action of this major plant hormone. R. L. Jones and J. V. Jacobsen review the post-1970 work, baring the great complexity of a subject that at first seemed quite tractable.

In section 3, Hormonal Control, papers by Y. Masuda and by R. E. Cleland and D. L. Rayle review our current understanding of the long-sought mechanism by which auxins promote cell wall growth. Here again one is impressed by the complexity exposed by the data. In an especially lucid treatment, M. Katsumi and H. Kazama provide a rationale for the unification of the two seemingly disparate major roles of gibberellic acid. The final paper in this section, by E. Miginiac, presents support for the frequently overlooked importance of interorgan correlation in the control of flowering.

In the last section, Environmental Control, research with five rather diverse model systems is reviewed. Y. Oota and N. Nakashima summarize their efforts to elucidate the complex photoperiodic control of flowering in *Lemna gibba*, and M. Furuya documents our growing awareness of the complexity of the photocontrol of spore germination, protonemal growth, and cell division in ferns. Years of experience with mustard seedlings have provided H. Mohr and his co-workers with a good system for developmental studies. Here Mohr describes the formation of both temporal and spatial patterns of differentiation in cotyledon development in light and darkness. A. W. Galston summarizes the highly original and productive studies of leaf movements in legumes. Exploration of these unique plants has yielded insight into many of the important biological problems of our time and promises to enrich our understanding of the complex interactions of light with endogenous rhythmic processes. M. B. Wilkins, himself a major force in the study of geotropism, concludes with the welcome news that the statolith and Cholodny-Went hypotheses of the early 1900’s are standing the test of time, at least as guiding concepts. All is not quicksand!

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Books Received

Adolescence. Transition from Childhood to Maturity. B. Geraldine Lambert, Barbara F. Rothschild, Richard Altland, and Laurence B. Green. Brooks/Cole, Monterey, Calif., ed. 2, 1978. viii, 376 pp., illus. \$12.95.

Annual Review of Medicine. Selected Topics in the Clinical Sciences. Vol. 29. William P. Creger, C. H. Coggins, and E. W. Hancock, Eds. Annual Reviews, Palo Alto, Calif., 1978. x, 614 pp., illus. \$17.

Annual Review of Neuroscience. Vol. 1. W. Maxwell Cowan, Zach W. Hall, and Eric R. Kandel, Eds. Annual Reviews, Palo Alto, Calif., 1978. xiv, 506 pp., illus. \$17.

Annual Review of Pharmacology and Toxicology. Vol. 18. Robert George, Ronald Okun, and Arthur K. Cho, Eds. Annual Reviews, Palo Alto, Calif., 1978. x, 650 pp., illus. \$17.

Annual Review of Physiology. Vol. 40. Ernst Knobil, Ralph R. Sonnenschein, and I. S. Edelman, Eds. Annual Reviews, Palo Alto, Calif., 1978. x, 604 pp., illus. \$17.

Applications of Digital Signal Processing. Alan V. Oppenheim, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1978. xii, 498 pp., illus. \$23. Prentice-Hall Signal Processing Series.

Applied Mineral Exploration with Special Reference to Uranium. Robert V. Bailey and Milton O. Childers. Westview Press, Boulder, Colo., 1977. xx, 542 pp., illus. \$65.

Aquatic Microbiology. Papers from a conference, 1976. F. A. Skinner and J. M. Shewan, Eds. Academic Press, New York, 1977. xii, 370 pp., illus. \$30.25. The Society for Applied Bacteriology Symposium Series No. 6.

Biology in Transition. A Critical Inquiry. Harry Lehman. Exposition Press, Hicksville, N.Y., 1978. 176 pp., \$8.50. An Exposition-University Book.

The Biology of People. Sam Singer and Henry R. Hilgard. Freeman, San Francisco, 1978. xiv, 546 pp., illus. \$15. A Series of Books in Biology.

Biomolecular Structure and Function. Papers from a symposium, Columbia, Mo., May 1977. Paul F. Agris, Richard N. Loepky, and Brian D. Sykes, Eds. Academic Press, New York, 1978. xxvi, 614 pp., illus. \$25.

Coal Resources, Characteristics and Ownership in the U.S.A. Robert Noyes, Ed. Noyes Data Corporation, Park Ridge, N.J., 1978. xii, 606 pp., illus. \$45.

Control System Design by Pole-Zero Assignment. Papers from a meeting, Cambridge, England, Sept. 1974. F. Fallside, Ed. Academic Press, New York, 1977. x, 240 pp., illus. \$22.50.

Cosmic Catastrophes. Gerrit L. Verschuur. Addison-Wesley, Reading, Mass., 1978. x, 214 pp., illus. Cloth, \$9.95; paper, \$4.95.

The Courage to Be Imperfect. The Life and Work of Rudolf Dreikurs. Janet Terner and W. L. Pew with the editorial assistance of Robert A. Aird. Hawthorn Books, New York, 1978. xvi, 412 pp., illus. \$14.95.

Creation. Frank Jakubowsky. Published by the author, 1565 Madison Street, Apt. 308, Oakland, Calif., 1978. iv, 106 pp., illus. Paper, \$1.95.

Current Trends for the Developmentally Disabled. Papers from a conference. Atlanta, 1976. Margo S. Berkler, Gary H. Bible, Shawn M. Boles, Diane E. D. Deitz, and Alan C. Repp, Eds. University Park Press, Baltimore, 1978. viii, 232 pp. Paper, \$9.95.

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Effects of Solar Activity on the Earth's Atmosphere and Biosphere. M. N. Gnevyshev and A. I. Ol', Eds. Translated from the Russian edition (Moscow, 1971). Israel Program for Scientific Translations, Jerusalem, 1977 (U.S. distributor, Halsted [Wiley], New York). xiv, 290 pp., illus. \$39.50.

Electrical Properties of Biological Polymers, Water, and Membranes. Papers from a conference, Jan. 1977. Shiro Takashima and Harvey M. Fishman, Eds. New York Academy of Sciences, New York, 1977. vi, 446 pp., illus. Paper, \$45. vol. 303.

Electron Spectroscopy. Papers from a symposium, Uppsala, Sweden, May 1977. Jan Hedman and Kai Siegbahn, Eds. Royal Swedish Academy of Sciences, Stockholm, 1977. pp. 163-468, illus. Paper, 200 Sw kr. *Physica Scripta*, vol. 16, Nos. 5-6.

Electronic Instrumentation and Measurement Techniques. William David Cooper. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1978. xii, 500 pp., illus. \$17.95.

Elements of the Behavioral Code. Francis V. DeFeudis and Patricia A. F. DeFeudis. Academic Press, New York, 1977. xiv, 390 pp., illus. \$29.35.

Energy Methods in Stress Analysis. With an Introduction to Finite Element Techniques. T. H. Richards, Horwood, Chichester, England, and Halsted (Wiley), New York, 1978. xxii, 410 pp., illus. Ellis Horwood Series in Engineering Science.

Engineering in the Ancient World. J. G. Landels. University of California Press, Berkeley, 1978. 224 pp., illus. \$12.50.

Environment: North and South. An Economic Interpretation. Charles Pearson and Anthony Pryor. Wiley-Interscience, New York, 1978. xxiv, 356 pp. \$24.95.

Environmental Aerodynamics. R. S. Scorer. Horwood, Chichester, England, and Halsted (Wiley), New York, 1978. 488 pp., illus. \$49.50. Mathematics and Its Applications.

Environmental Improvement through Economic Incentives. Frederick R. Anderson, Allen V. Kneese, Phillip D. Reed, Russell B. Stevenson, and Serge Taylor. Published for Resources for the Future by Johns Hopkins University Press, Baltimore, 1978. xii, 196 pp. Cloth, \$13; paper, \$4.50.

Environmental Quality—1977. The Eighth Annual Report of the Council on Environmental Quality. Council on Environmental Quality, Washington, D.C., 1977 (available from the Superintendent of Documents, Washington, D.C.). xxx, 444 pp., illus. Paper, \$4.25.

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Equalant I and Equalant II. Oceanographic Atlas. Vol. 2, Chemical and Biological Oceanography. Unesco Press, Paris, 1976 (U.S. distributor, Unipub, New York). xxxviii, 358 pp. In looseleaf binder, \$72.50.

Essentials of Calculus for Business and Economics. Louis Leithold. Harper and Row, New York, 1978. xvi, 442 pp., illus. + appendix. \$13.95.

The Ethics of Experience and Behavior Control. Proceedings of a colloquium, Los Angeles, Feb. 1976. Henry Clark, Ed. University of Southern California Center for the Humanities, Los Angeles, 1978. vi, 68 pp. Paper.

Ethological Dictionary. German-English-French. Armin Heymer. Garland, New York, and Verlag Paul Parey, Berlin, 1978. 238 pp., illus. \$22.50.

Experiments in Family Planning. Lessons from the Developing World. Roberto Cuca and Catherine S. Pierce. Published for the World Bank by Johns Hopkins University Press, Baltimore, 1977. xvi, 262 pp. Cloth, \$13.50; paper, \$3.50.

Handbook of Air Pollution Analysis. Roger Perry and Robert J. Young, Eds. Chapman and Hall, London, and Halsted (Wiley), New York, 1978. xvi, 506 pp., illus. \$37.50.

Health Needs of Society. A Challenge for Medical Education, Papers from two meetings, Ulm, Germany, July 1976, and Geneva, Nov. 1976. A. Gellhorn, T. Fülöp, A. Bankowski, and Olga Gellhorn, Eds. Published for the Council for International Organizations of Medical Sciences (CIOMS) by World Health Organization, Geneva, 1977 (U.S. distributor, WHO Publications Centre USA, Albany, N.Y.). vi, 222 pp. Paper, \$9.

Hermann von Helmholtz: Epistemological Writings. The Paul Hertz/Moritz Schlick Centenary Edition of 1921. Translated from the German by Malcolm F. Lowe, Robert S. Cohen and Yehuda Elkana, Eds. Reidel, Boston, 1977. xxxviii, 206 pp. Cloth, \$24; paper, \$12. Synthese Library, vol. 79. Boston Studies in the Philosophy of Science, vol. 37.

Hospital Cost Containment. Selected Notes for Future Policy. Michael Zubkoff, Ira E. Raskin, and Ruth S. Hanft, Eds. Published for the Milbank Memorial Fund by PRODIST (Neale Watson), New York, 1978. xii, 656 pp., illus. Cloth, \$15; paper, \$8.95.

Host-Parasite Relationships in Systemic Mycoses. Proceedings of a conference. Ma'alot, Israel, Mar. 1976. A. M. Beemer, A. Ben-David, M. A. Klingberg, and E. S. Kuttin, Eds. Karger, Basel, 1977. Two volumes. Part 1, Methodology, Pathology and Immunology. xiv, 176 pp., illus. Paper, \$42.50. Part 2, Specific Diseases and Therapy. xiv, 194 pp., illus. Paper, \$42.50. Contributions to Microbiology and Immunology, vols. 3 and 4.

How to Get Along with Your Stomach. A Complete Guide to the Prevention and Treatment of Stomach Distress. Nancy Nugent. Illustrated by Walter Nugent. Little, Brown, Boston, 1978. xii, 272 pp., illus. \$8.95. A Modern Medicine Book.

Human Genetics. An Introduction to the Principles of Heredity. Sam Singer. Freeman, San Francisco, 1978. x, 140 pp., illus. Paper, \$5.

Human Growth and Its Disorders. W. A. Marshall. Academic Press, New York, 1977. xvi, 180 pp., illus. \$13.25.

Induced Representations in Crystals and Molecules. Point, Space and Nonrigid Molecule Groups. Simon L. Altmann. Academic Press, New York, 1977. xviii, 370 pp., illus. \$35.25.

Industrial Applications of Microbiology. Jacques Rivière. Translated from the French edition (Paris, 1975) and edited with additional material by M. O. Moss and J. E. Smith. Halsted (Wiley), New York, 1978. viii, 248 pp., illus. \$22.50.

The Inequality of Pay. Henry Phelps Brown. University of California Press, Berkeley, 1978. xvi, 360 pp., illus. \$16.50.

The Influence of Litigation on Medical Practice. Proceedings of a conference, London, May 1977. Clive Wood, Ed. Academic Press, London, and Grune and Stratton, New York, 1977. xii, 216 pp. \$20.

An Introduction to Behavioral Endocrinology.

Alan I. Leshner. Oxford University Press, New York, 1978. xii, 362 pp., illus. Cloth, \$11; paper, \$6.

Introduction to Demographic Analysis. Principles and Methods. Guillaume J. Wunsch and Marc G. Termote. Plenum, New York, 1978. xiv, 274 pp., illus. \$15.95.

An Introduction to Energy Conversion. Vol. 3, Turbomachinery. V. Kadambi and Manohar Prasad. Halsted (Wiley), New York, 1978. viii, 284 pp., illus. \$9.95.

An Introduction to Experimental Design in Psychology. A Case Approach. Homer H. Johnson and Robert L. Solso. Harper and Row, New York, ed. 2, 1978. xiv, 248 pp., illus. Paper, \$6.50. Harper's Experimental Psychology Series.

Introductory Applied Statistics in Science. Sung C. Choi. Prentice-Hall, Englewood Cliffs, N.J., 1978. x, 278 pp., illus. \$15.95.

Introductory Psychology in Depth. Wayne Holtzman, Ed. Harper's College Press, New York, 1978. 3 vols. Biological Topics, x, 202 pp., illus. Paper, \$4.95. Developmental Topics, x, 292 pp. Paper, \$4.95. Social Topics, x, 262 pp., illus. Paper, \$4.95.

Investigating Ecology. Elliott H. Blaustein and Rose Blaustein. Arco, New York, 1978. 140 pp., illus. Cloth, \$11.95; paper, \$7.95.

Ion Implantation in Semiconductors 1976. Proceedings of a conference, Boulder, Colo., Aug. 1976. Fred Chernow, James A. Borders, and David K. Brice, Eds. Plenum, New York, 1977. xiv, 754 pp., illus. \$59.50.

Isaac Newton's Papers and Letters on Natural Philosophy and Related Documents. I. Bernard Cohen, Ed. Harvard University Press, Cambridge, Mass., ed. 2, 1978. xviii, 540 pp., illus. \$26.50.

James Cook, Maritime Scientist. Tom and Cordelia Stamp. Caedmon of Whitby, Whitby, North Yorkshire, England, 1978. xiv, 160 pp., illus. \$10.

The Joints and Synovial Fluid. Vol. 1. Leon Sokoloff, Ed. Academic Press, New York, 1978. xiv, 492 pp., illus. \$42.

Mathematical Techniques for Biology and Medicine. William Simon. MIT Press, Cambridge, Mass., ed. 2, 1977. xii, 292 pp., illus. Paper, \$9.95.

Mechanizing Microbiology. Papers from a conference, Ottawa, Sept. 1975. Anthony N. Sharpe and David S. Clark, Eds. Thomas, Springfield, Ill., 1978. xiv, 334 pp., illus. \$25.75. American Lecture Series, Publication No. 1010. A Monograph in the Bannerstone Division of American Lectures in Clinical Microbiology.

The Melanesian Environment. Papers from a seminar, Port Moresby, Papua New Guinea, May 1975. John H. Winslow, Ed. Australian National University Press, Canberra, 1977. xxxiv, 562 pp., illus. \$12.50.

Mental Retardation. A Developmental Approach. Charles Carr Cleland. Prentice-Hall, Englewood Cliffs, N.J., 1978. xxii, 376 pp. \$13.95.

Meteorology. An Introductory Course. Arnt Eliassen and Kaare Pedersen. Universitetsforlaget, Oslo, 1977 (U.S. distributor, Columbia University Press, New York). Two volumes. illus. Vol. 1, Physical Processes and Motion. 204 pp. Paper, \$17. Vol. 2, Application to Weather and Weather Systems. 166 pp. Paper, \$15. Scandinavian University Books.

Methods of Modern Mathematical Physics. Vol. 4, Analysis of Operators. Michael Reed and Barry Simon. Academic Press, New York, 1978. xvi, 396 pp. \$34.

(Continued on page 543)

AAAS NEWS

(Continued from page 508)

tists who can share their experience, both as scientists and as handicapped persons, with government agencies, Congress, scientific societies, educational institutions, and organizations of and for handicapped individuals. Compilation of the *Directory* was supported by a grant from the National Science Foundation.

The *Directory* includes a geographical index, a discipline index, an index of handicapping conditions, and an index of handicapped women scientists. A guide for use, prepared by the AAAS, accompanies the *Directory*. Copies are available from the Office of Opportunities in Science at the AAAS address at \$3 per copy.

* * * *

Science for Handicapped Students in Higher Education. Identifies and analyzes the barriers which prevent many handicapped students from obtaining science education at or beyond the college level, and develops strategies and recommendations for overcoming those barriers. Work was done under a grant from the National Science Foundation. Barriers of attitude, information, communication, environment, academics, and finance are discussed. The report includes a bibliography. Limited copies are available, free, from the Office of Opportunities in Science at the AAAS address.

Guide to Scientific Instruments Delayed by Strike

The AAAS *Guide to Scientific Instruments*, which was scheduled to be printed in September, has been delayed by a strike at the paper manufacturer's plant in Ohio. Printing and mailing will be re-scheduled as soon as the strike is over or other paper can be obtained.

For more information about the activities and publications described in "AAAS News," write to the appropriate office, AAAS, 1776 Massachusetts Avenue, NW, Washington, D.C. 20036, unless otherwise indicated.

BOOKS RECEIVED

(Continued from page 512)

Minorities in Science. The Challenge for Change in Biomedicine. Proceedings of a AAAS conference, Boston, Feb. 1976. Vijaya L. Melnick and Franklin D. Hamilton. Eds. Plenum, New York, 1978. xxiv, 296 pp. \$19.50.

Mitochondria 1977. Genetics and Biogenesis of Mitochondria. Proceedings of a colloquium, Schliersee, Germany, Aug. 1977. W. Bandlow, R. J. Schweyen, K. Wolf, and F. Kaudewitz, Eds. Walter de Gruyter, Berlin, 1977. xx, 672 pp., illus. DM 190.

Monitoring in Anesthesia. Lawrence J. Saidman and N. Ty Smith. Wiley, New York, 1978. xx, 356 pp., illus. \$25. Wiley Series in Anesthesiology.

The Net and the Quest. Patterns of Community and How They Can Survive Progress. Pica Press, New York, 1978 (distributor, Universe Books, New York). 264 pp. \$15.

The Neurobiology of Behavior. An Introduction. Gordon J. Mogenson. Erlbaum, Hillsdale, N.J., 1977 (distributor, Halsted [Wiley], New York). xii, 334 pp., illus. \$14.95.

Neuroleptics and Schizophrenia. Leslie L. Iverson, Susan D. Iversen, and Solomon H. Snyder, Eds. Plenum, New York, 1978. xii, 250 pp., illus. \$25. Handbook of Psychopharmacology, vol. 10.

Origins of Human Cancer. Papers from a conference, Cold Spring Harbor, N.Y., Sept. 1976. H. H. Hiatt, J. D. Watson, and J. A. Winsten, Eds. Cold Spring Harbor Laboratory, Cold Spring Harbor, N.Y., 1977. Three books. Book A, Incidence of Cancer in Humans. xxviii, 602 pp., illus. Book B, Mechanisms of Carcinogenesis. xvi + pp. 603-1304, illus. Book C, Human Risk Assessment. xvi + 1305-1890, illus. The set, \$45. Cold Spring Harbor Conferences on Cell Proliferation, vol. 4.

Oxalic Acid in Biology and Medicine. A. Hodgkinson. Academic Press, New York, 1977. xiv, 326 pp., illus. \$30.25.

Palynology. Marjorie D. Muir and William A. A. Sarjeant, Eds. Dowden, Hutchinson and Ross, Stroudsburg, Pa., 1977 (distributor, Academic Press, New York). Two volumes. Part 1, Spores and Pollen. xvi, 384 pp., illus. \$24.50. Part 2, Dinoflagellates, Acritarchs, and Other Microfossils. xvi, 416 pp., illus. \$24.50. Benchmark Papers in Geology, vols. 46 and 47.

Pattern Recognition. Ideas in Practice. Bruce G. Batchelor, Ed. Plenum, New York, 1978. xvi, 486 pp., illus. \$39.50.

Pediatric Nephrology. Vol. 4, Renal Failure: Current Concepts in Diagnosis and Management. Proceedings of a seminar, Miami, Jan. 1977. José Strauss, Ed. Garland STPM Press, New York, 1978. xiv, 272 pp., illus. \$29.50.

Permanent Magnets in Theory and Practice. Malcolm McCaig. Halsted (Wiley), New York, 1977. x, 374 pp., illus. \$30.

Perspectives in Ethology. Vol. 3, Social Behavior. P. P. G. Bateson and Peter H. Klopfer, Eds. Plenum, New York, 1978. xiv, 264 pp., illus. \$22.50.

Pest Control Strategies. Papers from a symposium, Ithaca, N.Y., June 1977. Academic Press, New York, 1978. xvi, 334 pp., illus. \$16.

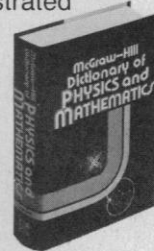
Vibrations and Waves in Physics. Ian G. Main. Cambridge University Press, New York, 1978. xiv, 336 pp., illus. Cloth, \$37.50; paper, \$8.95.

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