

biological underpinnings of the disorder, have developed that, at best, form an uneasy alliance and, at worst, engage in open warfare. It has not been a productive situation.

Of late, advances in our understanding of the psychological, social, and biological factors underlying psychopathology offer hope for a truce, particularly concerning depressive illness. Hence Becker's comprehensive book outlining current theory and research in depression is timely. Depressive disorders stand out from other psychopathological syndromes by virtue of their relative clarity of definition. Indeed, they may well serve the investigator as a "model" of madness. The opportunity to integrate many complex variables has touched the field with the excitement of advance. One suspects that it is this excitement that triggered Becker to undertake his extensive review of current knowledge and, further, to appeal to fellow social scientists to join the psychiatric world in an investigation of depression as an important and ubiquitous phenomenon.

Although relatively short, the book provides a background for all aspects of the burgeoning field, reporting with great accuracy and in considerable detail many of the key studies of recent years. It is highly recommended both as an introduction and as a source book.

The volume's one drawback is held in common with other efforts to review such broad fields. Attempting to avoid bias, Becker at times endangers the interest of his reader by providing a list of investigations without providing an underlying conceptual frame. In the name of theoretical neutrality he steers between depression as "primarily a psychophysiologic reaction" and depression as "a disease entity with a specific biological substrate." An early chapter offering a theoretical integration of these two viewpoints would have been valuable and would have assisted in conveying to the uninitiated some of the excitement and opportunity offered by a broad knowledge of the field.

It is hoped, however, that this occasionally arid climate will not discourage those who enjoy prospecting, for there is considerable gold to be found in this short volume.

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Books Received

Alkaloids. K. F. Wiesner, Ed. Butterworths, London, and University Park Press, Baltimore, 1973. xii, 346 pp., illus. \$24.50. MTP International Review of Science Organic Chemistry Series One, vol. 9.

Amino Acids, Peptides, and Related Compounds. D. H. Hey and D. I. John, Eds. Butterworths, London, and University Park Press, Baltimore, 1973. xii, 282 pp., illus. \$24.50. MTP International Review of Science Organic Chemistry Series One, vol. 6.

Analytical Chemistry of Silicon. L. V. Myshlyaeva and V. V. Krasnoshchekov. Translated from the Russian edition (Moscow, 1972) by J. Schmorak. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. viii, 228 pp., illus. \$30. Analytical Chemistry of the Elements.

Annual Review of Physiology. Vol. 36. Julius H. Comroe, Jr., Ralph R. Sonnenschein, and Kenneth L. Zierler, Eds. Annual Reviews, Palo Alto, Calif., 1974. viii, 584 pp., illus. \$15.

Aphasia Theory and Therapy. Selected Lectures and Papers of Hildred Schuell. Luther F. Sies, Ed. University Park Press, Baltimore, 1974. xviii, 300 pp., illus. \$14.50.

Assessment of Medical Care for Children. David M. Kessner, Carolyn Kalk Snow, and James Singer. Institute of Medicine, National Academy of Sciences, Washington, D.C., 1974. xx, 232 pp., illus. Cloth, \$8.50; paper, \$6. Contrasts in Health Status, vol. 3.

Assessment of Sexual Function. A Guide to Interviewing. Group for the Advancement of Psychiatry. Aronson, New York, 1974. viii, 92 pp. \$7.50.

Atlas of Gallium-67 Scintigraphy. A New Method of Radionuclide Medical Diagnosis. Gerald S. Johnston and A. Eric Jones. Plenum, New York, 1973. x, 224 pp., illus. \$25.

Atlas of Landforms. H. Allen Curran, Phillip S. Justus, Eldon L. Perdew, and Michael B. Prothero. Wiley, New York, ed. 2, 1974. iv, 140 pp., illus. Spiral bound, \$11.95.

Atlas of Protein Spectra in the Ultraviolet and Visible Regions. Vol. 2. Donald M. Kirschenbaum, Ed. IFI/Plenum, New York, 1974. xiv, 624 pp., illus. \$39.50.

Being Different. The Autobiography of Jane Fry. Robert Bogdan, Ed. Wiley-Interscience, New York, 1974. xiv, 236 pp. \$9.95.

A Bibliography of the Zoology of Tennessee and the Tennessee Valley Region. Charles S. Shoup. U.S. Atomic Energy Commission, Oak Ridge, Tenn., 1974 (available as NP-19905 from National Technical Information Service, Springfield, Va.). iv, 252 pp. Paper, \$7.60.

Biliary Atresia and Choledochal Cyst. New Concepts of Cause and Treatment. Papers from a symposium, Tokyo, June 1972. Alexander H. Bill and Morio Kasai, Eds. University Park Press, Baltimore, 1974. viii, 140 pp., illus. \$16.50. Progress in Pediatric Surgery, vol. 6.

Conundrum. Jan Morris. Harcourt Brace

Jovanovich, New York, 1974. xiv, 174 pp. \$5.95.

Drug Receptors. Proceedings of a symposium, London, Apr. 1972. H. P. Rang, Ed. University Park Press, Baltimore, 1973. xii, 322 pp., illus. \$24.50.

Electrical Conductivity in Ceramics and Glass. Part A. N. M. Tallan, Ed. Dekker, New York, 1974. xxiv, 312 pp., illus. \$26.50. Ceramics and Glass. Science and Technology Monographs Series, vol. 4.

Elementary Physics. F. W. Van Name, Jr., and David Flory. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1974. xiv, 334 pp., illus. \$9.95.

Ellen Swallow. The Woman Who Founded Ecology. Robert Clarke. Follet, Chicago, 1974. xii, 276 pp. + plates. \$7.95.

Estimation of Product Attributes and Their Importances. J. P. Wallace and A. Sherret. Springer-Verlag, New York, 1973. vi, 94 pp., illus. Paper, \$6.20. Lecture Notes in Economics and Mathematical Systems, vol. 89.

Experimental Phonetics. Norman J. Lass, Ed. MSS Information Corp., New York, 1974. 550 pp., illus. Paper, \$13.75.

Fever. The Hunt for a New Killer Virus. John G. Fuller. Reader's Digest Press, New York, 1974 (distributor, Dutton, New York). 298 pp. \$8.95.

Fishes of the World. A Key to Families and a Checklist. G. U. Lindberg. Translated from the Russian edition (Leningrad, 1971) by Hilary Hardin. B. E. Bykhovskii and A. P. Andriyashev, Eds. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. vi, 546 pp., illus. \$42.50.

Food and Man. Miriam E. Lowenberg, E. Neige Todhunter, Eva D. Wilson, Jane R. Savage, and James L. Lubawski, Eds. Wiley, New York, ed. 2, 1974. xii, 460 pp., illus. \$11.50.

Food to Improve Your Health. A Complete Guide to over 300 Foods for 101 Common Ailments. Linda Pelstring and Jo Ann Hauck. Walker, New York, 1974. 222 pp. \$7.95.

Géologie du Diamant. Vol. 1, Généralités. M. G. Bardet. Editions B.R.G.M., Paris, 1973. 236 pp., illus. 224,70 F. Memoires du B.R.G.M., No. 83.

Kinetic and Nonsteady-State Effects in Superconductors. B. T. Geilikman and V. Z. Kresin. Translated from the Russian edition (Moscow, 1972) by P. Shelnitz. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. vi, 156 pp., illus. \$19.75.

Laboratory Handbook of Petrographic Techniques. Charles S. Hutchison. Wiley-Interscience, New York, 1974. xxx, 528 pp., illus. \$19.95.

The Landforms of the Humid Tropics, Forests and Savannas. J. Tricart. Translated from the French edition (Paris, 1965) by Conrad J. Kiewit de Jonge. St. Martin's, New York, 1973. xvi, 306 pp., illus. \$17.95. Geographies for Advanced Study.

Lead in the Canadian Environment. National Research Council, NRC Associate Committee on Scientific Criteria for Environmental Quality, Ottawa, Canada, 1973 (available from Publications, NRCC/CNRC, Ottawa). 116 pp. Paper, \$2.

(Continued on page 463)

BOOKS RECEIVED

(Continued from page 434)

Minerals of the World. A Field Guide and Introduction to the Geology and Chemistry of Minerals. Charles A. Sorrell. Illustrated by George F. Sandström. Golden Press (Western Publishing), Racine, Wis., 1973. 280 pp. Cloth, \$5.95; paper, \$3.95. Golden Field Guide Series.

Molecular Microbiology. J. B. G. Kwapinski, Ed. Wiley, New York, 1974. x, 484 pp., illus. \$27.50. A Wiley Biomedical-Health Publication.

Prostaglandin Abstracts. A Guide to the Literature. Vol. 1, 1906-1970. Richard M. Sparks, Ed. IFI/Plenum, New York, 1973. xii, 498 pp. \$26.

Protamines. T. Ando, M. Yamasaki, and K. Suzuki. Springer-Verlag, New York, 1973. x, 114 pp., illus. \$18.50. Molecular Biology, Biochemistry and Biophysics, vol. 12.

Protective Coatings on Metals. Vol. 5. G. V. Samsonov, Ed. Translated from the Russian edition (Kiev, 1971) by Eric Renner. Consultants Bureau (Plenum), New York, 1973. xii, 276 pp., illus. Paper, \$35.

Psychology. A Life-Centered Approach. Frank J. Bruno. Hamilton (Wiley), Santa Barbara, Calif., 1974. xii, 496 pp., illus. Paper, \$9.95.

The Structure of Scientific Theories. Papers from a symposium, Urbana, Ill., Mar. 1969. Frederick Suppe, Ed. University of Illinois Press, Urbana, 1974. xiv, 682 pp., illus. \$22.50.

Studies in Model Theory. M. D. Morley, Ed. Mathematical Association of America, Washington, D.C., 1973. x, 198 pp., \$8; by subscription, \$4. Studies in Mathematics, vol. 8.

The Technique and Practice of Intensive Psychotherapy. Richard D. Chessick. Aronson, New York, 1974. xiv, 376 pp. \$12.50.

Theory of Plasma Instabilities. A. B. Mikhailovskii. Translated from the Russian edition (Moscow, 1971) by Julian B. Barbour. Consultants Bureau (Plenum), New York, 1974. Two vols., illus. Vol. 1, Instabilities of a Homogeneous Plasma. xviii, 290 pp. \$32.50. Vol. 2, Instabilities of an Inhomogeneous Plasma. xviii, 314 pp. \$32.50. Studies in Soviet Science.

The Thyroid Axis, Drugs, and Behavior. Arthur J. Prange, Jr., Ed. Raven, New York, 1974, viii, 206 pp., illus. \$15.95.

Tissue Culture of the Nervous System. Gordon Sato, Ed. Plenum, New York, 1973. xiv, 288 pp., illus. \$19.50. Current Topics in Neurobiology, vol. 1.

The Titanic Effect. Planning for the Unthinkable. Kenneth E. F. Watt. Dutton, New York, 1974. xvi, 268 pp. \$7.95.

To The Good Long Life. What We Know About Growing Old. Morton Puner. Universe Books, New York, 1974. 320 pp. \$7.95.

Vibrational Spectra of Polyatomic Molecules. L. M. Sverdlov, M. A. Kovner, and E. P. Krainov. Translated from the Russian edition (Moscow, 1970) by IPST Staff. Halsted (Wiley), New York, and Israel Program for Scientific Translations, Jerusalem, 1974. xiv, 644 pp., illus. \$38.

2 AUGUST 1974

Personnel Placement

POSITIONS WANTED

Aquatic Biologist, M.S., seeks position with environmental consulting firm, industry, or state or federal agencies. Experience with macrobenthos, stream surveys, and chemical water analysis. Available August 1974. Write: 611 Washington Street, Blacksburg, Va. 24060. X

Biochemistry/Genetics, Ph.D. Publications; experience in protein synthesis, cell culture, protein purification/characterization; seeks research, teaching/research position. Box 360, SCIENCE. 8/9

Biological Oceanographer, Ph.D. 1974. Marine zooplankton ecology. Publications and past grant awards. Desires research position. Available 1 October. Box 361, SCIENCE. 8/9

Biologist, Ph.D. (genetics, 1965), postdoctoral, broad training, outstanding teacher, 15 years of professional experience. Special interest innovative undergraduate programs. Seeks academic position. 2266 Lake Circle, Jackson, Mississippi 39211. X

Cellular Immunologist (Ph.D. 1972), M.S. (biochemistry), B.S. (chemistry, biology), diploma-tissue culture. Experience—2 years of postdoctoral research in rheumatology (RA and JRA), working on soluble immune complexes, publications in preparation. Seeking a challenging position in industrial, clinical, academic or administrative setting. Available January 1975. Box 362, SCIENCE. X

Mathematician wants water resources research and/or teaching position. All but Ph.D.; 11 years of applied mathematics/statistics: power flow, streamflow synthesis/temperature, siting and cooling pond analyses; 9 years of teaching. Publications. Box 363, SCIENCE. X

Medical Genetics and Biology, M.S., human, animal genetic and biochemical research experience. Seeks health research position. Box 364, SCIENCE. X

Organic Chemist—Pharmacologist, Ph.D., publications, teaching experience. Current research: structure-activity relationships. Seeks position in teaching/research. Prefers northeastern United States. Box 365, SCIENCE. X

Pharmacologist, Ph.D. Three years of professional school teaching; interested in research position. Experience—GI, autonomic, and cardiovascular research in dogs. Box 366, SCIENCE. X

Ph.D. Husband-Wife Team. Marine biology, environmental physiology, plankton, ecology, teachers, researchers, shipboard experience, publications, environmental consulting, presently marine biology lecturers in Kenya. Dr. Kenneth Turgeon, 14 Quanapoag Road, East Freetown, Mass. 02717. Telephone: (617) 763-5575. X

Physicist, Ph.D. (1971). Seventeen years of experience in research in private industry. One year of university teaching (1973-74). Experience in nuclear radiation, plasma physics, EM propagation, ionospheric studies, and oceanography. Desires position in research and/or teaching in industry or university. Box 367, SCIENCE. X

Physiologist, Ph.D. Trained in clinical respiratory mechanics seeks position in hospital or industry. Box 368, SCIENCE. X

Theoretical Biophysicist, Ph.D. Postdoctoral experience. Publications. Conformational analysis of enzymes, nucleic acids, and proteins. Presently working on the molecular design of enzyme active sites. Availability is flexible. Box 369, SCIENCE.

Virology—Molecular Biology, Ph.D. 1967 with teaching, grant-supported research and project manager experience. Seeking a challenging position involving any combination of teaching, research or administration. Box 357, SCIENCE.

POSITIONS OPEN

ASSISTANT DIRECTOR

The Carnegie-Mellon Institute of Research (CMIR) (formerly Mellon Institute) is looking to expand its interests in contract research into economics, planning, evaluation, and management studies by appointing an Assistant Director who will be charged with developing the program. Candidates with applicable experience should submit résumés, in confidence, to the Director, CMIR, 4400 Fifth Avenue, Pittsburgh, Pa. 15213. Salary negotiable. An equal opportunity employer.

POSITIONS OPEN

ACADEMIC POSITION, state salaried for M.D., Ph.D., or equivalent. Teaching and research in health care services, medical care organization, evaluation of health care programs for targeted populations (MCH, aging, poor, and so forth), or for system-wide program effectiveness. Available now. Salary and rank negotiable. Send résumé and salary requirements to **Dr. Edward A. Lichter, Health Care Services, School of Public Health, University of Illinois, P.O. Box 6998, Chicago, Illinois 60680. Phone: 312-996-7630.** The University of Illinois is an Affirmative Action—Equal Opportunity Employer and encourages applications from members of minority groups and women.

ANIMAL PATHOLOGIST

D.V.M./Ph.D. to join rapidly growing pharmacology and toxicology group. Requires strong background and interest in animal histopathology. Will participate in ongoing and new long-term programs in the safety evaluation of antimalarial, anticancer agents, and environmental chemicals. Applications with curriculum vitae and names of three references, should be sent to:

Martin N. Schuler
Midwest Research Institute
425 Volker Boulevard

Kansas City, Missouri 64110

An Equal Opportunity Employer M/F

ASSISTANT PROFESSOR OF ENTOMOLOGY

Assistant Professor with postdoctoral experience in insect physiology, effective 1 April 1975. Undergraduate and graduate teaching, development and direction of a research program in insect physiology and application of some aspects of this field to agricultural or forest entomology. Maximum starting salary \$14,043. Send curriculum vitae and names of three referees by 31 October 1974 to: **Dr. George E. Ball, Chairman, Department of Entomology, 260 Agriculture Building, University of Alberta, Edmonton, Alberta T6G 2E3, Canada.**

ASSISTANT PROFESSOR

Temporary position beginning September 1974 to teach courses in general biochemistry. Appointment will be made at the level of Assistant Professor. Curriculum vitae and names of three references may be sent to **Dr. Leonard Malkin, Department of Biochemistry, Wayne State University School of Medicine, Detroit, Michigan 48201.** Wayne State University is an Affirmative Action Employer.

BIOCHEMISTRY DEPARTMENT of Wayne State University School of Medicine invites applications for faculty positions from individuals who have done independent research. Rank and salary are open. Candidates with experience in the fields of metabolic regulation, molecular biology, neurobiochemistry, or protein chemistry will be given special consideration. Curriculum vitae and names of three references may be sent to **Dr. Ray K. Brown, Chairman, Department of Biochemistry, Wayne State University School of Medicine, Detroit, Michigan 48201.** Wayne State University is an Affirmative Action Employer.

The Department of Biological Sciences, San Jose State University, San Jose, Calif. 95192, an Equal Opportunity Employer, announces an opening for assistant professor of human anatomy, 30 August 1974. Teaching and research in this and allied fields. Graduate student advising and teaching. Send curriculum vitae to **Joseph H. Young, Chairman.**

The department also announces temporary positions for one and two semesters, 1974-75 academic year, part- and full-time, in entomology, cell biology, electron microscopy, human anatomy and physiology, zoology, microbiology, ecology, and general biology.

The Biology Department of the University of Missouri-Kansas City announces the opening of two positions to be filled from the following three areas

Comparative Physiologist Molecular Geneticist Systems Ecologist

at the Assistant Professor rank. Duties will be undergraduate and graduate teaching with research productivity expected. Salary \$12,500 for 9 months. Send complete curriculum vitae, list of publications, and names of three professional references. Contact **Chairman, Department of Biology, 5100 Rockhill Road, University of Missouri-Kansas City, Kansas City, Mo. 64110.**