chapters, on massif anorthosites (J.-C. Duchesne), although informative, seems out of place in this volume, for there is no obvious mineralogic or crystallographic aspect of the feldspars that can currently be genetically tied to anorthosites. Three papers on feldspathoids (by S. Merlino, C. M. B. Henderson, and A. D. Edgar) provide the best coverage of this subject that is available and round out the volume nicely. The conference organizers, the authors, and the editor have produced a valuable addition to an important field of mineralogy.

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Paleolimnology

Lake Sediments and Environmental History. Studies in Palaeolimnology and Palaeoecology in Honour of Winifred Tutin. ELIZABETH Y. HAWORTH and JOHN W. G. LUND, Eds. University of Minnesota Press, Minneapolis, 1984. xviii, 411 pp., illus. $55.

Over the last decade the subject of paleolimnology has rapidly gained popularity with the scientific community. Despite this surge of interest, there are surprisingly few volumes of collected papers dealing with the subject. The publication of *Lake Sediments and Environmental History* admirably fills the void.

The book opens with a warm introduction by John W. G. Lund outlining the career of Winifred Tutin, to whom the volume is dedicated. The contributed papers were collected to reflect the research interests of Tutin, which are wide-ranging, and the 14 chapters that make up the volume cover most topics that are of interest to paleolimnologists and palynologists. The contributions include geochemical studies, such as a comprehensive review by D. R. Engstrom and H. E. Wright, Jr., of the applicability of inorganic geochemistry to paleoecological reconstructions and a paper by P. A. Cranwell summarizing his stratigraphic analyses of triterpenoids from lake sediments. The problems associated with establishing a reliable chronostratigraphy are addressed in three chapters. Chapters by F. Oldfield and P. G. Appleby and by J. D. Eakins *et al.* deal with radiometric techniques, and one by R. Thompson provides a global review of paleomagnetism. The remainder of the volume mainly deals with fossil algae and pollen, including considerations of microfossil recruitment and sediment focusing. These studies are based largely on sites from the United Kingdom, but the data are usually discussed in a more global context. The study of fossil pigments receives only cursory treatment, and the analysis of animal microfossils is not considered.

A chapter by E. S. Deevey, Jr., on stress, strain, and stability in lacustrine ecosystems is especially thought-provoking. Borrowing terms from macroeconomic theory, Deevey examines the structure, function, and holistic nature of lake systems. A careful reading of the chapter should convince most skeptics that paleolimnological studies are not simply historical documentations but also allow for an "explanatory description and prediction of a system's trajectory in time." The chapter will undoubtedly become required reading for many graduate seminars.

Overall, the book represents an important contribution to the study of environmental history, providing an interesting collection of reviews and case studies of use to nonspecialists as well as to practicing paleolimnologists. A detailed table of contents, lists of illustrations and tables, and a subject index enhance the volume's usefulness as a reference.

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Books Received

Changes in Eukaryotic Gene Expression in Response to Environmental Stress. Burr G. Atkinson and David B. Walden, Eds. Academic Press, Orlando, Fla., 1985. xviii, 381 pp., illus. $65. Cell Biology.

Chemistry for the Health Sciences. George I. Sackheim and Dennis D. Lehman. 5th ed. Macmillan, New York, and Collier Macmillan, London, 1985. xiv, 594 pp., illus. Cloth.

Childhood and Death. Hannelore Wass and Charles A. Corr, Eds. Hemisphere, Washington, D.C., 1984. xvi, 392 pp., illus. $39.95. Series in Death Education, Aging, and Health Care.

Chronology of Eclipses and Comets, AD 1–1000. D. Justin Schove. Boydell, Dover, N.H., 1985. xxxviii, 356 pp. $29.50.

The Climatic Scene. M. J. Tooley and G. M. Sheail, Eds. Allen and Unwin, Boston, 1985. xxii, 306 pp., illus. $30.

Clinical Epidemiology. The Architecture of Clinical Research. Alvan R. Feinstein. Saunders, Philadelphia, 1985. xii, 812 pp., illus. $60.

Clinical Experiences with Budipine in Parkinson Therapy. F. Gerstenbrand, W. Poewe, and G. Stern, Eds. Springer-Verlag, New York, 1985. xii, 213 pp., illus. Paper, $26.50. From a workshop, Innsbruck/Igls, Austria.

Earth Reinforcement and Soil Structures. Colin J. F. P. Jones. Butterworths, Boston, 1985. xviii, 183 pp., illus. $59.95. Butterworths Advanced Series in Geotechnical Engineering.

Eastern Forests. Ann Sutton and Myron Sutton. Knopf, New York, 1985. 640 pp., illus. Paper, $14.95. The Audubon Society Nature Guides.

Micro Database Management. Practical Techniques for Application Development. Robert H. Bonczek, Clyde W. Holsapple, and Andrew B. Whinston. Academic Press, Orlando, Fla., 1984. xiv, 513 pp., illus. $37.50. Computer Science and Applied Mathematics.

Microbial Toxins and Diarrhoeal Disease. Pitman, London, 1985 (U.S. distributor, CIBA Pharmaceutical Company, Newark, N.J.). x, 286 pp., illus. $35. Ciba Foundation Symposium 112. From a symposium, London, July 1984.

Microbiology. Essentials and Applications. Larry McKane and Judy Kandel. McGraw-Hill, New York, 1985. xviii, 777 pp., illus. $35.95.

The Microcomputer in Cell and Neurobiology Research. R. Ranney Mize, Ed. Elsevier, New York, 1985. xvi, 481 pp., illus. $49.50.

Microform, Video and Electronic Media Librarianship. S. John Teague. Butterworths, Boston, 1985. x, 150 pp., illus. $28.95.

Mind and Brain. Principles of Neuropsychology. Alberta Steinman Gilinsky. Praeger, New York, 1984. xxviii, 550 pp., illus. $39.95; paper, $18.95.

Minds Made Feeble. The Myth and Legacy of the Kallikaks. J. David Smith. Aspen Systems Corporation, Rockville, Md., 1985. xvi, 205 pp., illus. $19.95.

Modern Cellular Automata. Theory and Applications. Kendall Preston, Jr., and Michael J. B. Duff. Plenum, New York, 1984. xviii, 340 pp., illus. $49.50. Advanced Applications in Pattern Recognition.

Modern High Temperature Science. A Collection of Research Papers from Scientists, Post-Doctoral Associates, and Colleagues of Professor Leo Brewer in Celebration of His 65th Birthday. John L. Margrave, Ed. Humana, Clifton, N.J., 1984. xvi, 462 pp., illus. $95. Reprinted from *High Temperature Science*, vol. 17.

Modern Physical Metallurgy. R. E. Smallman. 4th ed. Butterworths, Boston, 1985. xiv, 530 pp., illus. $59.95.

Modern Trends in Hypnosis. David Waxman *et al.*, Eds. Plenum, New York, 1985. xviii, 429 pp., illus. $55. From a congress, Glasgow, Aug. 1982.

Modulated Structure Materials. T. Tsakalakos, Ed. Nijhoff, Dordrecht, 1984 (U.S. distributor, Kluwer, Hingham, Mass.). iv, 611 pp., illus. $79. NATO ASI Series E, No. 83. From an institute, Maleme-Chania, Greece, June 1983.

Molecular Basis of Cancer. Robert Rein, Ed. Liss, New York, 1985. Two volumes. Part A, Macromolecular Structure, Carcinogens, and Oncogenes. xxvi, 576 pp., illus. $78. Part B, Macromolecular Recognition, Chemotherapy, and Immunology. xxii, 401 pp., illus. $62. Progress in Clinical and Biological Research, vol. 172. From a conference, Buffalo, N.Y., May 1984.

Molecular Basis of Insulin Action. Michael P. Czech, Ed. Plenum, New York, 1985. xvi, 473 pp., illus. $59.50.

Molecular Biology and Human Disease. Alexander MacLeod and Karol Sikora, Eds. Blackwell Scientific, Palo Alto, Calif., 1984 (distributor, Mosby/Times Mirror, St. Louis). xii, 271 pp., illus. Paper, $15.95.

Molecular Biology of Host-Parasite Interactions. Nina Agabian and Harvey Eisen, Eds. Liss, New York, 1984. xx, 351 pp., illus. $78. UCLA Symposia on Molecular and Cellular Biology, New Series, vol. 13. From a symposium, Park City, Utah, Jan. 1983.

Molecular Characterization of Composite Interfaces. Hatsuo Ishida and Ganesh Kumar, Eds. Plenum, New York, 1985. x, 453 pp., illus. $75. Polymer Science and Technology, vol. 27. From a symposium, Seattle, March 1983.

Mucosal Immunity. John I. Gallin and Anthony S. Fauci, Eds. Raven, New York, 1985. xii, 196 pp., illus. $39.50. Advances in Host Defense Mechanisms, vol. 4.

Mushrooms and Other Fungi. Aurel Dermek. Arco, New York, 1984. 223 pp., illus. $8.95. Translated from the Czech edition (Bratislava, 1981).

Myocardial Ischemia and Lipid Metabolism. R. Ferrari *et al.*, Eds. Plenum, New York, 1984. xii, 341 pp., illus. $49.50. From a conference, Rome, July 1983.

Natural Acts. A Sidelong View of Science and Nature. David Quammen. Schocken, New York, 1985. xvi, 221 pp. $16.95.

Neurohumoral Maintenance of Immune Homeostasis. Elena A. Korneva, Viktor M. Klimenko, and Elenora K. Shkhinek. Translated from the Russian edition (Leningrad, 1978) by and edited by Samuel A. Corson and Elizabeth O'Leary Corson, with Roland Dartau, Justina Epp, and L. A. Mutschler. University of Chicago Press, Chicago, 1985. x, 253 pp., illus. $32.

New and Expanded Medical Schools, Mid-Century to the 1980s. J. R. Schofield. Jossey-Bass, San Francisco, 1984. xxxviii, 454 pp. $29.95. Jossey-Bass Higher Education Series. Association of American Medical Colleges Series in Academic Medicine.

A New Look at the Dinosaurs. Alan Charig. Facts On File, New York, 1985. 160 pp., illus. Paper, $9.95.

NMR Data Handbook for Biomedical Applications. Paula T. Beall, Sharad R. Amtey, and Sitapati R. Kasturi. Pergamon, New York, 1984. xviii, 198 pp., illus. $59.95; paper, $29.95.