



"Uranium glass from Bohemia. Due to high uranium content (ca. 1%) such glasses may be readily dated by fission tracks." [From *Fission-Track Dating*]

erosion of mountain belts and basement, determination of thermal evolution of basins and ore deposits, dating of meteoroid impacts, and dating of sea-floor basalts.

This volume would make a suitable supplemental textbook for an isotope geology or tectonic analysis course. Moreover, the specialist will find it to be a handy reference, as the bibliography is reasonably complete through early 1991. The chapter about the etching and stability of fission tracks in a variety of geological materials is especially interesting and thorough. In addition to discussing the minerals commonly used in fission-track dating (apatite, zircon, glass, mica, and sphene), the authors put forth suggestions for further work on a number of other minerals, such as calcite and epidote, that may have important geological applications.

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## Reprints of Books Previously Reviewed

**A Convergence of Lives.** Sofia Kovalevskaja: Scientist, Writer, Revolutionary. Ann Hibner Koblitz. Rutgers University Press, New Brunswick, NJ, 1993. Paper, \$13.95. *Reviewed* 224, 726 (1984).

**German National Socialism and the Quest for Nuclear Power, 1939–1949.** Mark Walker. Cambridge University Press, New York, 1993. Paper, \$13.95. *Reviewed* 249, 570 (1990).

**The Logic of Life.** A History of Heredity. François

Jacob. Princeton University Press, 1993. Paper, \$12.95. *Original French edition reviewed* 172, 364 (1971).

**The Mathematical Theory of Black Holes.** S. Chandrasekhar. Oxford University Press, New York, 1993. Paper, \$49.95. *Reviewed* 222, 1116 (1983).

**The Outer Circle.** Women in the Scientific Community. Harriet Zuckerman, Jonathan R. Cole, and John T. Bruer, Eds. Yale University Press, New Haven, CT, 1993. Paper, \$18. *Reviewed* 254, 445 (1991).

**Scribes, Warriors and Kings.** The City of Copán and the Ancient Maya. William L. Fash. Barbara W. Fash, illustrator. Thames and Hudson, New York, 1993 (U.S. distributor, Norton, New York). Paper, \$19.95. *Reviewed* 256, 1062 (1992).

## Books Received

**Advances in Coleopterology.** Mario Zunino, Xavier Bellés, and Marina Blas, Eds. European Association of Coleopterology, Barcelona, 1991. 323 pp., illus. Paper, 7000 Ptas. Based on a congress, Barcelona, Sept. 1989.

**Aging and Cellular Defense Mechanisms.** Claudio Franceschi *et al.*, Eds. New York Academy of Sciences, New York, 1992. xii, 526 pp., illus. Paper, \$150. Annals of the New York Academy of Sciences, vol. 663. From a conference, Modena, Italy, Sept. 1991.

**Agricultural Ecosystem Effects on Trace Gases and Global Climate Change.** G. A. Peterson *et al.*, Eds. American Society of Agronomy, Madison, WI, Crop Science Society of America, Madison, WI, and Soil Science Society of America, Madison, WI, 1993. xviii, 206 pp., illus. Paper, \$30. ASA Special Publication no. 55. From a symposium, Denver, Oct. 1991.

**AIDS.** Effective Health Communication for the 90s. Scott C. Ratzan, Ed. Taylor and Francis, Philadelphia, 1993. xxviii, 268 pp., illus. \$39.50.

**Alien Plant Invasions in Native Ecosystems of Hawai'i.** Management and Research. Charles P. Stone, Clifford W. Smith, and J. Timothy Tunison, Eds. University of Hawaii Cooperative National Park Resources Studies Unit, Honolulu, 1992 (distributor, University of Hawaii Press, Honolulu). xvi, 887 pp., illus. \$60. Based on a symposium, 1986.

**American Apartheid.** Segregation and the Making of the Underclass. Douglas S. Massey and Nancy A. Denton. Harvard University Press, Cambridge, MA, 1993. xii, 292 pp. \$29.95.

**The American Southwest and Mesoamerica.** Systems of Prehistoric Exchange. Jonathon E. Ericson and Timothy G. Baugh, Eds. Plenum, New York, 1993. xviii, 302 pp., illus. \$45. Interdisciplinary Contributions to Archaeology.

**Analytical Population Dynamics.** T. Royama. Chapman and Hall, New York, 1992. xvi, 371 pp., illus. \$49.50. Population and Community Biology Series.

**Anatomy of Flowering Plants.** An Introduction to Structure and Development. Paula Rudall. 2nd ed. Cambridge University Press, New York, 1992. x, 110 pp., illus. Paper, \$19.95.

**Annals Index 1988/1989.** Vance Weaver, compiler. New York Academy of Sciences, New York, 1992. viii, 577 pp. \$40. Annals of the New York Academy of Sciences, vol. 634.

**Applications of Network Thermodynamics to Problems in Biomedical Engineering.** Donald C. Mikulecky. New York University Press, New York, 1993. xxxii, 381 pp., illus. \$70. New York University Monographs in Biomedical Engineering.

**Applied Chaos Theory.** A Paradigm for Complexity. A. B. Çambel. Academic Press, San Diego, CA, 1993. xviii, 246 pp., illus. \$44.95.

**Arthur C. Clarke.** The Authorized Biography. Neil McAleer. Contemporary Books, Chicago, IL, 1992. xviii, 430 pp. + plates. \$25.

**L'Attention Visuelle de la Conscience aux Neurosciences.** Jean-Claude Lécas. Mardaga, Liège, Belgium, 1992. 310 pp., illus. 195 F. Psychologie et Sciences Humaines.

**Banding Together.** The Rise of National Associa-

tions in American Higher Education, 1887–1950. Hugh Hawkins. Johns Hopkins University Press, Baltimore, MD, 1992. xx, 295 pp. \$39.95.

**Bargaining for Life.** A Social History of Tuberculosis, 1876–1938. Barbara Bates. University of Pennsylvania Press, Philadelphia, 1992. xii, 435 pp., illus. \$45.95; paper, \$19.95. Studies in Health, Illness, and Caregiving in America.

**Before the Computer.** IBM, NCR, Burroughs, and Remington Rand and the Industry They Created, 1865–1956. James W. Cortada. Princeton University Press, Princeton, NJ, 1993. xxii, 344 pp., illus., + plates. \$55. Princeton Studies in Business and Technology.

**The Beria Affair.** The Secret Transcripts of the Meetings Signalling the End of Stalinism. D. M. Stickler, Ed. Nova, Commack, NY, 1992. viii, 218 pp. Paper, \$49. Translated from the Russian by Jean Farrow.

**Bhopal.** Anatomy of a Crisis. Paul Shrivastava. 2nd ed. Chapman, London, 1992 (U.S. distributor, Taylor and Francis, Bristol, PA). x, 169 pp., illus. Paper, \$29.95. Business and the Environment.

**Biological Electron Microscopy.** Theory, Techniques, and Troubleshooting. Michael J. Dykstra. Plenum, New York, 1992. xx, 360 pp., illus. \$49.50.

**Biomechanics—Materials.** A Practical Approach. Julian F. V. Vincent, Ed. Oxford University Press, New York, 1992. xviii, 247 pp., illus. \$70; paper, \$50. Practical Approach Series.

**Biosynthesis and Manipulation of Plant Products.** Don Grierson, Ed. Blackie Academic (Chapman and Hall), Glasgow, U.K., 1993. x, 253 pp., illus. \$149.95. Plant Biotechnology, vol. 3.

**The Changing American Mind.** How and Why American Public Opinion Changed Between 1960 and 1988. William G. Mayer. University of Michigan Press, Ann Arbor, 1992. xii, 505 pp. \$49.50; paper, \$18.95.

**Chaotic Dynamics.** Theory and Practice. T. Bountis, Ed. Plenum, New York, 1992. xii, 418 pp., illus. \$110. NATO Advanced Science Institutes Series B, vol. 298. From an institute, Patras, Greece, July 1991.

**Characterization of Materials.** John B. Wachtman with Zwi H. Kalman. Manning, Greenwich, CT, and Butterworth-Heinemann, Stoneham, MA, 1993. xvi, 480 pp., illus. \$74.95.

**Chemical Signals in Vertebrates 6.** Richard L. Doty and Dietland Müller-Schwarze, Eds. Plenum, New York, 1992. xvi, 637 pp., illus. \$125. From a conference, Philadelphia, June 1991.

**Chemistry and Life.** An Introduction to General, Organic, and Biological Chemistry. John W. Hill, Dorothy M. Feigl, and Stuart J. Baum. 4th ed. Macmillan, New York, 1993. Various pages, illus. \$39.

**Chimie Quantique de l'Atome à la Théorie de Hückel.** B. Vidal. Masson, Paris, 1992. x, 351 pp., illus. 185 F. Enseignement de la Chimie.

**Chimpanzee Material Culture.** Implications for Human Evolution. W. C. McGrew. Cambridge University Press, New York, 1992. xvi, 277 pp., illus. \$79.95.

**Chirality in Industry.** The Commercial Manufacture and Applications of Optically Active Compounds. A. N. Collins, G. N. Sheldrake, and J. Crosby, Eds. Wiley, New York, 1992. xvi, 409 pp., illus. \$135.

**Chronic Lymphocytic Leukemia.** Scientific Advances and Clinical Developments. Bruce D. Cheson, Ed. Dekker, New York, 1993. xvi, 424 pp., illus. \$99.75. Basic and Clinical Oncology, 1.

**A Chronological Taxonomy of Conus, 1758–1840.** Alan J. Kohn. Smithsonian Institution Press, Washington, DC, 1992. x, 315 pp., illus., + plates. \$45.

**The Cleveland Herbal, Botanical, and Horticultural Collections.** A Descriptive Bibliography of Pre-1830 Works from the Libraries of the Holden Arboretum, the Cleveland Medical Library Association, and the Garden Center of Greater Cleveland. Stanley H. Johnston, Jr., compiler. Kent State University Press, Kent, OH, 1992. xviii, 1012 pp. + plates. \$85.

**Climate Modes of the Phanerozoic.** The History of the Earth's Climate Over the Past 600 Million Years. Lawrence A. Frakes, Jane E. Francis, and Jozef I. Syktus. Cambridge University Press, New York, 1992.