

geology and petrology of Caribbean islands and discusses tectonic evolution. Rast discusses the evolution of the entire Appalachian chain and Arbenz that of the Marathon-Ouachita chain. Bally describes the diverse types of North American Phanerozoic basins and passive margins. Hoffman presents a superb description and plate-tectonic synthesis of the Precambrian geology of the continent. Wright discusses Quaternary climatic variations. Meyer summarizes the hydrology of the continent, Bird its fossils fuels, and Skinner its mineral resources.

Most of the text figures and the many folded plates are well drawn and reproduced, with red added to many of them for clarity. The multicolor plates are mostly disappointing 1:20,000,000 maps of North America on the transverse-Mercator DNAG projection—extremely generalized surficial and bedrock-lithology maps to accompany the hydrology paper, and low-resolution maps of magnetic and gravity anomalies that are no match for the previously published 1:5,000,000 DNAG maps.

The other DNAG volumes have been published promptly as completed, but because of the sluggishness of some authors all but the early volumes contain papers written years apart. All papers in this volume were written within little more than a year and hence are current. A number of them provide the best compact summaries anywhere on their large topics.

This book is a bargain, and it is recommended highly.

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## Some Other Books of Interest

**Archaeological Thought in America.** C. C. LAMBERG-KARLOVSKY, Ed. Cambridge University Press, New York, 1989. viii, 357 pp., illus. \$39.50.

This volume is intended as a companion to a similar collection on method and theory in Soviet archeology emanating from an archeological exchange program in which the editor was involved. Quoting a statement by one of the contributors that "there is . . . no unity to archaeology as a discipline in the United States," Lamberg-Karlovsky notes that the present collection does not provide a "holistic" overview of the field, "nor does it pretend to offer geographical or chronological comprehensiveness" or a representation of humanistic (as distinct from anthropological) approaches.

In addition to an introduction in which Lamberg-Karlovsky considers various issues

and trends in the field (the legacy of the "new archeology" and the validity of the "deductive nomological" model associated with it, the revival of idealist and relativist perspectives, the "cultural critique" provided by historical archeology), the volume contains 17 papers. The first group, History, Method, and Theory, begins with an essay by Bruce Trigger concerned with the exclusion of the discipline of history and its methods from archeology and a discussion by Robin Dunnell of the use of evolutionary theory in archeology. In the ensuing papers such topics as the "new archeology," Marxist perspectives, the use of statistics, hunter-gatherer studies, the interpretation of religion, and the reconstruction of prehistoric economics are discussed by Lewis Binford, Antonio Gilman, George Cowgill, Arthur Demarest, John Yellen, and Mark Cohen.

The remaining papers in the book are devoted to interpretation and evaluation of archeology as applied to particular geographic regions. After a discussion of the use of structuralism in the interpretation of the art of Paleolithic Europe by Margaret Conkey and an anthropological view of ancient China by Kwang-Chih Chang, two papers deal with New World studies—Gordon Willey on evidence of intensive agriculture in the Maya Lowlands and Timothy Earle and Terence D'Altroy on the political economy of the Inka empire. The remaining papers, by W. A. Fairservis, Philip Kohl, Lamberg-Karlovsky, Rita Wright, and Allen Zargarell, are focused largely on the Middle East, considering in that context such topics as cultural epigenesis, the use of world systems theory, the production and exchange of ceramics, and pastoralism and state formation. The volume includes a 45-page combined bibliography and an index.—K.L.

**Prehistory at Cambridge and Beyond.** GRAHAME CLARK. Cambridge University Press, New York, 1989. x, 176 pp., illus. \$39.50.

Having himself been a Cambridge prehistorian for some 60 years, the author of this brief chronicle of the discipline of prehistoric archeology as based there has been able to draw on the memories of many of its practitioners as well as a variety of published sources. In an introductory chapter he traces the development of prehistoric archeology in Britain, "almost entirely a private pursuit" until the First World War and thereafter for a time dependent on importation of expertise from abroad. In keeping with the observation that, as in North America, Cambridge archeology has always been closely associated with anthropology, a chapter is then devoted to the latter discipline at Cambridge up to the 1920s. The author then

turns to archeology itself, beginning with the period 1920–1939, which saw the first appointment of a salaried staff and other institutional arrangements and rearrangements. Key figures in this era included E. H. Minns, H. M. Chadwick, Louis Leakey, and Dorothy Garrod, among their students being Desmond Clark, Glyn Daniel, Charles McBurney, and the author himself. With World War II Cambridge prehistory was "put in abeyance."

The story resumes with an account of an era of expansion marked by the establishment of archeology and anthropology as a full Tripos in 1948 and including training in field excavation. This expansion included the establishment of a subdepartment of Quaternary research, and such research (enhanced by new dating techniques) and the development of a concern with economic prehistory are the subject of the next chapter. Also following on World War II was an expansion of opportunities and incentives for working overseas, and the "beyond" of the title is represented in two final chapters devoted to the work of Cambridge-trained prehistorians in Africa, Australasia, America, and Asia and in continental Europe and Britain generally. In these chapters the further careers of many figures who appeared earlier in the book are traced.

The book ends with 1974 (the year of the author's retirement), but some observations on more recent matters are offered in a brief epilogue. The volume includes 59 photographs of Cambridge prehistorians and their work in progress, as well as two maps, 16 pages of notes, and an index.—K.L.

## Books Received

**Archaeological Research in the El Cajon Region.** Vol. 1, Prehistoric Cultural Ecology. Kenneth Hirth, Gloria Lara Pinto, and George Hasemann, Eds. University of Pittsburgh Department of Anthropology, Pittsburgh, and Instituto Hondureño de Antropología e Historia, Tegucigalpa, 1989. xxii, 281 pp., illus. Paper, \$15. University of Pittsburgh Memoirs in Latin American Archaeology, no. 1.

**Archaeological Wood.** Properties, Chemistry, and Preservation. Roger M. Rowell and R. James Barbour, Eds. American Chemical Society, Washington, DC, 1990. xii, 472 pp., illus. \$79.95. *Advances in Chemistry*, vol. 225. From a symposium, Los Angeles, CA, Sept. 1988.

**Aspects of Climate Variability in the Pacific and the Western Americas.** David H. Peterson, Ed. American Geophysical Union, 1989. xviii, 445 pp., illus. \$50. *Geophysical Monographs*, vol. 55.

**The Atomic Bomb.** Voices from Hiroshima and Nagasaki. Kyoko Selden and Mark Selden, Eds. Sharpe, Armonk, NY, 1990. xxviii, 257 pp. + plates. \$24.95. An East Gate Book.

**Bacterial Capsules.** K. Jann and B. Jann, Eds. Springer-Verlag, New York, x, 162 pp., illus. \$69.50. *Current Topics in Microbiology and Immunology*, vol. 150.

**By Design.** Planning Research on Higher Education. Richard J. Light, Judith D. Singer, and John B. Willett. Harvard University Press, Cambridge, MA, 1990. x, 272 pp. \$25; paper, \$10.95.

**Camping with the Prince and Other Tales of Science in Africa.** Thomas A. Bass. Houghton Mifflin, Boston, 1990. xvi, 304 pp. \$19.95.

**Cool Energy.** The Renewable Solution to Global Warming. Michael Brower. Union of Concerned Scientists, Cambridge, MA, 1990. xiv, 89 pp., illus. \$4.95.

**Copper Bio Availability and Metabolism.** Constance Kies, Ed. Plenum, New York, 1989. xii, 307 pp., illus. \$72.50. Advances in Experimental Medicine and Biology, vol. 258. From a symposium, Dallas, TX, April 1989.

**Everyday Cognition in Adulthood and Late Life.** Leonard W. Poon, David C. Rubin, and Barbara A. Wilson, Eds. Cambridge University Press, New York, 1989. xii, 708 pp., illus. \$90.

**Excavations at Seibal, Department of Peten, Guatemala.** Peripheral Survey and Excavation, Settlement and Community Patterns. Gair Tourtellot III. Peabody Museum of Archaeology and Ethnology, Cambridge, MA, 1988 (distributor, Harvard University Press, Cambridge, MA). xxiii, 473 pp., illus., + maps in packet. Paper, \$45. Memoirs of the Peabody Museum, vol. 16.

**Fatty Acid Oxidation.** Clinical, Biochemical, and Molecular Aspects. Kay Tanaka and Paul M. Coates, Eds. Liss (Wiley), New York, 1989. xxii, 728 pp., illus. \$160. Progress in Clinical and Biological Research, vol. 321. From a symposium, Philadelphia, PA, Nov. 1988.

**FGK Stars and T Tauri Stars.** Lawrence E. Cram and Leonard V. Kuhl. National Aeronautics and Space Administration, Washington, DC, 1989 (available as NASA SP-502 from the Superintendent of Documents, Washington, DC). lxxi, 297 pp., illus. Paper, \$18. Monograph Series on Nonthermal Phenomena in Stellar Atmospheres.

**Field Desorption Mass Spectrometry.** László Prókai. Dekker, New York, 1990. viii, 291 pp., illus. \$99.75. Practical Spectroscopy, vol. 9.

**Foetus into Man.** Physical Growth from Conception to Maturity. J. M. Tanner. Harvard University Press, Cambridge, MA, 1990. vi, 250 pp., illus. \$25; paper, \$12.95. Reprint, 1978 ed.

**Fossils as Information.** New Recording and Stratigraphic Correlation Techniques. Norman F. Hughes. Cambridge University Press, New York, 1989. viii, 136 pp., illus. \$47.50; paper, \$12.95.

**Foundations of Social Theory.** James S. Coleman. Belknap (Harvard University Press), Cambridge, MA, 1990. xviii, 993 pp., illus. \$39.50.

**Fourier Analysis.** T. W. Korner. Cambridge University Press, New York, 1989. xii, 591 pp., illus. Paper, \$34.50. Reprint, 1988 ed.

**The Freshwater Fishes of Western Borneo (Kalimantan Barat, Indonesia).** Tyson R. Roberts. California Academy of Sciences, San Francisco, 1989. xii, 210 pp., illus. \$20. Memoirs of the California Academy of Sciences, no. 14.

**Geology of the Arabian Peninsula.** Shield Area of Western Saudi Arabia. Glen F. Brown, Dwight L. Schmidt, and A. Curtis Huffman, Jr. U.S. Government Printing Office, Washington, DC, 1989. x, 188 pp., illus., + boxed maps. Paper, \$16. U.S. Geological Survey Professional Paper no. 560-A.

**Glass.** D. R. Uhlmann and N. J. Kreidel, Eds. Academic Press, San Diego, CA, 1990. Vol. 4A, Structure, Microstructure, and Properties, x, 346 pp., illus. Vol. 4B, Advances in Structural Analysis. xxii, 385 pp., illus. Each vol., \$115.

**Glossary of Acarological Terminology.** Vol. 3, Holothirida. L. van der Hammen. SPB, The Hague, 1989. 116 pp., illus. Paper, \$40.

**Hormonal Regulation of Growth.** Herwig Frisch and Michael O. Thorne. Eds. Raven, New York, 1989. xvi, 307 pp., illus. \$71. Sero Symposium Publications from Raven Press, vol. 58. From a symposium, Vienna, Austria, 1988.

**The Immune Response to Viral Infections.** B. A. Askonas *et al.* Eds. Plenum, New York, 1989. x, 305 pp., illus. \$69.50. Advances in Experimental Medicine and Biology, vol. 257. From a symposium, Florence, Italy, April 1988.

**Immunopharmacology Reviews.** Vol. 1. John W. Hadden and Andor Szentivanyi, Eds. Plenum, New York, 1990. xiv, 418 pp. \$79.50.

**Immunophysiology.** The Role of Cells and Cytokines in Immunity and Inflammation. Joost J. Oppenheim and Ethan M. Shevach, Eds. Oxford University Press, New York, 1990. xii, 424 pp., illus. \$85.

**Intermedia Pollutant Transport.** Modeling and Field Measurements. David T. Allen, Yoram Cohen, and Isaac R. Kaplan, Eds. Plenum, New York, 1989. viii, 298 pp., illus. \$75. From a conference, Santa Monica, CA, Aug. 1988.

**Investing in Research.** A Proposal to Strengthen the Agricultural, Food, and Environmental System. National Research Council. National Academy Press, Washington, DC, 1989. xii, 155 pp. Paper, \$20.

**Liquid Chromatography/Mass Spectrometry.** Techniques and Applications. Alfred L. Yergey *et al.*, Plenum, New York, 1990. x, 306 pp., illus. \$65. Modern Analytical Chemistry.

**Mammalian Parenting.** Biochemical, Neurobiological, and Behavioral Determinants. Norman A. Krasnegor and Robert S. Bridges, Eds. Oxford University Press, New York, 1990. xii, 502 pp., illus. \$75. From a conference, Leesburg, VA, 1987.

**Managing Creativity in Science and Hi-Tech.** Ronald Kay. Springer-Verlag, New York, 1990. xvi, 221 pp. \$29.95.

**Marine Toxins.** Origin, Structure, and Molecular Pharmacology. Sherwood Hall and Gary Strichartz, Eds. American Chemical Society, Washington, DC, 1990. xii, 377 pp., illus. \$74.95. ACS Symposium Series, vol. 418. From a symposium, Woods Hole, MA, Aug. 1987.

**Materials Processing in Space.** Theory, Experiments, and Technology. Vol. 1. L. L. Regel. R. Z. Sagdeev, Ed. Consultants Bureau (Plenum), New York, 1990. Translated from the Russian edition (Moscow, 1987) by J. E. S. Bradley.

**Mathematical and Statistical Approaches to AIDS Epidemiology.** C. Castillo-Chavez, Ed. Springer-Verlag, New York, 1989. x, 405 pp., illus. Paper, \$47.10. Lecture Notes in Biomathematics, vol. 83.

**Mayflies and Stoneflies.** Life Histories and Biology. Ian C. Campbell, Ed. Kluwer, Norwell, MA, 1989. x, 366 pp., illus. \$154. Series Entomologica, vol. 44. From a conference, Marysville, Australia, Feb. 1987.

**Methods for the Localization of Singularities in Numerical Solutions of Gas Dynamics Problems.** E. V. Vorozhtsov and N. N. Yanenko. Springer-Verlag, New York, 1990. x, 406 pp., illus. \$110. Springer Series in Computational Physics. Translated from the Russian edition (Novosibirsk, 1985).

**Methods in Neurosciences.** Vol. 1, Gene Probes. P. Michael Conn, Ed. Academic Press, San Diego, CA, 1989. xiv, 464 pp., illus. \$85; comb bound, \$45.

**Microorganisms.** From Smallpox to Lyme Disease. Thomas D. Brock, Ed. Freeman, New York, 1990. x, 173 pp., illus. Paper, \$11.95. Articles reprint from *Scientific American*.

**Midlife and Older Women in Latin America and the Caribbean.** American Association of Retired Persons and Pan American Health Organization, Washington, DC, 1989. xii, 424 pp. Paper, \$20. From a meeting, Washington, DC, Oct. 1988.

**Molecular Recognition.** Chemical and Biochemical Problems. Stanley M. Roberts, Ed. Royal Society of Chemistry, Cambridge, U.K., 1989 (U.S. distributor, CRC, Boca Raton, FL). xii, 285 pp., illus. Paper, \$76. Special Publication no. 78. From a symposium, Exeter, U.K., April 1989.

**Momentum Distributions.** Richard N. Silver and Paul E. Sokol, Eds. Plenum, New York, 1989. x, 413 pp., illus. \$89.50. From a workshop, Argonne, IL, Oct. 1988.

**More Heat Than Light.** Economics as Social Physics, Physics as Nature's Economics. Philip Mirowski. Cambridge University Press, New York, 1989. xii, 450 pp., illus. \$59.50. Historical Perspectives on Modern Economics.

**Natural Areas Facing Climate Change.** George P. Malanson, Ed. SPB, The Hague, 1989. viii, 92 pp., illus. Paper, \$19.

**Natural Hazards.** An Integrative Framework for Research and Planning. Risa I. Palm. Johns Hopkins University Press, Baltimore, 1990. xiv, 184 pp. \$32.50.

**The Natural History of Seals.** W. Nigel Bonner. Facts on File, New York, 1990. xvi, 196 pp., illus., + plates. \$24.95.

**Neurobiology of Sensory Systems.** R. Naresh Singh and Nicholas J. Strausfeld, Eds. Plenum, New York, 1989. xii, 620 pp., illus. \$120. From a conference, Goa, India, Sept. 1988.

**A Neurocomputational Perspective.** The Nature of Mind and the Structure of Science. Paul M. Churchland. MIT Press, Cambridge, MA, 1990. xx, 321 pp., illus. \$25.

**New Developments in Biotechnology.** Patenting Life. U.S. Congress, Office of Technology Assessment. Dekker, New York, 1990. xii, 195 pp., illus. \$69.75. Reprint, 1987 ed.

**New Directions in the Study of Justice, Law, and Social Control.** School of Justice Studies, Arizona State University. Plenum, New York, 1990. xiv, 281 pp., \$39.50. Critical Issues in Social Justice.

**Précis d'Embryologie Humaine.** Didier Rabineau. Ellipses, Paris, 1989. 128 pp., illus. Paper, F 95.

**Principles of Nutrient Assessment.** Rosalind S. Gibson. Oxford University Press, New York, 1990. xvi, 691 pp., illus. \$45.

**The Protection of Computer Software.** Its Technology and Applications. Derrick Grover, Ed. Published for the British Computer Society by Cambridge University Press, New York, 1989. xvi, 263 pp., illus. \$59.50. The British Computer Society Monographs in Informatics.

**Recent Progress in Microbial Production of Amino Acids.** Hitoshi Enoki, Kenzo Yokozeki, and Kunihiro Akashi, Eds. Gordon and Breach, Philadelphia, 1989. xiv, 140 pp., illus. Paper, \$69. Japanese Technology Reviews, vol. 5.

**Reduced Thermal Processing for ULSI.** Roland A. Levy, Ed. Plenum, New York, 1989. xii, 438 pp., illus. \$95. NATO Advanced Science Institutes Series B, vol. 207. From an institute, Boca Raton, FL, June 1988.

**Regional Acidification Models.** Geographic Extent and Time Development. J. Kämäri *et al.*, Eds. Springer-Verlag, New York, 1989. viii, 306 pp., illus. \$58.30. From a meeting, Hämeenlinna, Finland, July 1988.

**Renal Eicosanoids.** Michael J. Dunn, Carlo Patrino, and Giulio A. Cinotti, Eds. Plenum, New York, 1989. viii, 430 pp., illus. \$85. Advances in Experimental Medicine and Biology, vol. 259. From a symposium, Capri, Italy, June 1987.

**Research Priorities for Conservation Biology.** Michael E. Soulé and Kathryn A. Kohm, Eds. Society for Conservation Biology and Island Press, Washington, DC, 1989. xiv, 97 pp., illus. Paper, \$9.95. Critical Issues Series.

**Resonant Heterogeneous Processes in a Laser Field.** V. A. Kravchenko, A. N. Orlov, Yu. N. Petrov, and A. M. Prokhorov. Nova Science, Commack, NY, 1989. viii, 253 pp., illus. \$72. Proceedings of the Institute of General Physics, Academy of Sciences of the USSR, vol. 11. Translated from the Russian edition (Moscow, 1988) by S. S. Stewart.

**Science and Technology of Fast Ion Conductors.** Harry L. Tuller and Minko Balkanski, Eds. Plenum, New York, 1989. x, 262 pp., illus. \$85. NATO Advanced Science Institutes Series B, vol. 199. From an institute, Erice, Italy, July 1987.

**Science as Social Knowledge.** Values and Objectivity in Scientific Inquiry. Helen E. Longino. Princeton University Press, Princeton, NJ, 1990. xii, 262 pp. \$35; paper, \$19.95.

**Searching for Comets.** Deciphering the Secrets of our Cosmic Past. Louis Brewer Hall. McGraw-Hill, New York, 1989. x, 214 pp. + plates. \$17.95.

**Sieve Elements.** Comparative Structure, Induction and Development. H.-D. Behnke and R. D. Sjolund, Eds. Springer-Verlag, New York, 1990. xiv, 305 pp., illus. \$98. Based on a congress, Berlin, F.R.G., 1987.

**Signals in Plant Development.** Jan Krekule and Frideta Seidlová, Eds. SPB, The Hague, 1989. viii, 181 pp., illus. Paper, \$26. From a congress, Prague Czechoslovakia, July 1988.

**Social Representations of Intelligence.** Gabriel Mugny and Felice Carugati. Cambridge University Press, New York, 1989. xii, 196 pp. \$59.50. European Monographs in Social Psychology. Translated from the French by Ian Patterson.

**Society and Cosmos.** Chewong of Peninsular Malaysia. Signe Howell. University of Chicago Press, Chicago, 1989. xx, 294 pp. + plates. Paper, \$14.95. Reprint, 1984 ed.

**Standard Methods for the Examination of Water and Wastewater.** Lenore S. Clesceri, Arnold E. Greenberg, and R. Rhodes Trussell, Eds. 17th ed. American Public Health Association, Washington, DC, 1989. Various pagings, illus., + plates, \$120; to APHA, American Water Works Association, and Water Pollution Control Federation members, \$96.

**Statistical Thermodynamics and Kinetic Theory.** Charles E. Hecht. Freeman, New York, 1990. xii, 484 pp., illus. \$46.95.

**Stochastic Calculus in Manifolds.** Michel Emery. Springer-Verlag, New York, 1989. x, 151 pp. Paper, \$29. Universitext.

**Stress Between Work and Family.** John Eckenrode and Susan Gore, Eds. Plenum, New York, 1990. xx, 223 pp. \$29.50. Plenum Series on Stress and Coping.

**Techniques and Concepts of High-Energy Physics IV.** Thomas Ferbel, Ed. Plenum, New York, 1990. viii, 504 pp., illus. \$110. NATO Advanced Science Institutes Series B, vol. 204. From an institute, St. Croix, U.S. Virgin Islands, July 1988.

**Technology as Symptom and Dream.** Robert D. Romanyshyn. Routledge (Routledge, Chapman and Hall), New York, 1990. xiv, 254 pp., illus. \$45; paper, \$16.95.

**A Tenured Professor.** A Novel. John Kenneth Galbraith. Houghton Mifflin, Boston, 1990. x, 197 pp., illus. \$19.95.