

Milestones in Geology. Reviews to Celebrate 150 Volumes of the *Journal of the Geological Society*. M. J. E. LE BAS, Ed. Geological Society, London, 1995 (U.S. distributor, AAPG Bookstore, Tulsa, OK). viii, 272 pp., illus. Paper, \$49 or £30; to society members, \$25 or £15. Geological Society Memoir no. 16.

The Geological Society, founded in London in 1807, is characterized in the foreword to this volume as "the senior Earth science society in the World." One of the society's goals from the outset was to provide a medium for more extensive geological expositions than the preeminent *Philosophical Transactions* of the Royal Society would accommodate. Its earliest ventures in publishing proved financially problematic, and in 1845 the society's *Transactions* and *Proceedings* were combined to form a journal that continues to this day. *Milestones in Geology* commemorates this event by bringing together a collection of papers in which leading geologists set out to review the history and current status of "significant topics . . . brought to the fore in earlier contributions to the *Journal*." After an introduction by the editor and a brief historical account of the society's publishing activities by Martin Rudwick there are 18 contributions, each of which

takes as its point of departure a particular paper or group of papers that appeared in the *Journal*. Invoking Hutton and Lyell, Brian Windley opens the series with a consideration of "uniformitarianism today" in which he offers evidence to argue that, thermal changes notwithstanding, "plate tectonics provides a paradigm" for the very early geological past. In another contribution Michael Brown, referring back to an 1893 paper by George Barrow, discusses issues in the development of metamorphic petrology. A paper by Sedgwick in the initial volume of the *Journal* dealt with early Paleozoic stratigraphy, and W. S. McKerrow summarizes the prior and subsequent development of that subject. Subjects of the other reviews include early Precambrian crustal development, geochronology of metamorphic complexes, strike-slip motion, issues of bio- and chronostratigraphy, Jurassic geochronology, Mesozoic and Cenozoic vertebrate remains, Ordovician-to-Devonian paleogeography, sedimentary structures, the petrography of limestones, volcanism in the British Tertiary, magmatism, and hydrothermal ore genesis. A sampling of the earlier authors whose work is highlighted includes Henry Clinton Sorby, Charles Moore, Archibald Geikie, Charles Lapworth, S. S. Buckman, Alfred

Harker, Arthur Vaughan, and Walter Campbell Smith. Most of the contributions in *Milestones* have also been published in volume 150 (1993) of the *Journal* itself, and some include addenda updating the original versions. Each is preceded by a facsimile reproduction of the opening page of the principal *Journal* paper or papers it discusses, and each has an abstract. There is also an index to the volume as a whole.

Katherine Livingston

Books Received

Aboriginal Health in Canada. Historical, Cultural, and Epidemiological Perspectives. James B. Waldram, D. Ann Herring, and T. Kue Young. University of Toronto Press, Buffalo, NY, 1995. xii, 334 pp., illus. \$50 or £39; paper, \$18.95 or £14.75.


Biomarkers and Occupational Health. Progress and Perspectives. Mortimer L. Mendelsohn, John P. Peeters, and Mary Janet Normandy, Eds. Joseph Henry (National Academy), Washington, DC, 1995. x, 335 pp., illus. \$54.95. Based on a workshop, Santa Fe, NM, April 1994.

Calcium Hypothesis of Aging and Dementia. John F. Disterhoft *et al.*, Eds. New York Academy of Sciences, New York, 1994. x, 482 pp., illus. \$130. Annals of the New York Academy of Sciences, vol. 747. From a conference, Bethesda, MD, Dec. 1993.

Dealing in Diversity. America's Market for Nature Conservation. Victoria M. Edwards. Cambridge University Press, New York, 1995. xviii, 182 pp., illus. \$44.95.

Early Metal Mining and Production. Paul T. Crad-

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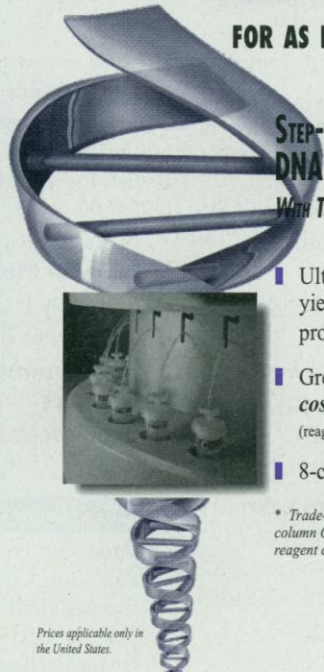


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dock. Smithsonian Institution Press, Washington, DC, 1995. xx, 363 pp., illus. \$59.

Female Genital Mutilation. A Public Health Issue Also in Italy. Pia Grassivaro Gallo and Franco Viviani, Eds. Department of General Psychology, University of Padua, Corte Capitaniato 3, I35139, Padova, Italy, 1995. viii, 84 pp., illus. Paper, \$20. From a symposium, Padua, Italy, May 1994.

Gene Transfer to Plants. I. Potrykus and G. Spangenberg, Eds. Springer-Verlag, New York, 1995. xxii, 361 pp., illus. Spiralbound, \$79. Springer Lab Manual.

Heat Shock Proteins in Fungal Infections. Ruth Matthews and James P. Burnie, Eds. Springer-Verlag, New York, and Landes, Austin, TX, 1995 (distributor, CRC Press, Boca Raton, FL). xii, 133 pp., illus. \$89. Molecular Biology Intelligence Unit.

The Imidazoline Receptor. Pharmacology, Functions, Ligands, and Relevance to Biology and Medicine. Donald J. Reis, Pascal Bousquet, and Angelo Parini, Eds. New York Academy of Sciences, New York, 1995. xvi, 707 pp., illus. \$190. Annals of the New York Academy of Sciences, vol. 763. From a conference, New York, July 1994.

Multidimensional Systems. Signal Processing and Modeling Techniques. C. T. Leondes, Ed. Academic Press, San Diego, 1995. xii, 441 pp., illus. \$99. Control and Dynamic Systems, vol. 69.

Multimedia Systems and Applications. R. A. Earnshaw and J. A. Vince, Eds. Academic Press, San Diego, 1995. xviii, 264 pp., illus., + CD-ROM. \$29.95.

Natural and Anthropogenic Influences in Fluvial Geomorphology. The Wolman Volume. John E. Costa *et al.*, Eds. American Geophysical Union, Washington, DC, 1995. x, 239 pp., illus. \$50; to AGU members, \$35. Geophysical Monograph 89. Based on a meeting, Baltimore, spring 1995.

Observational Astrophysics. Robert C. Smith. Cambridge University Press, New York, 1995. xxiv, 443 pp., illus. \$69.95; paper, \$34.95.

PHANART. Datenbank der Gefäßpflanzen Mitteleu-

ropas. Erklärung der Kennzahlen, Aufbau und Unhalt. Roland Lindacher. Eidgenössische Technische Hochschule, Zürich, 1995. 443 pp. Paper, SFr 78. Veröffentlichungen des Geobotanischen Institutes der Eidgenössischen Technischen Hochschule, Stiftung Rübel, Zürich, vol. 125.

The Pharmacology of Opioid Peptides. Leon F. Tseng, Ed. Harwood, Langhorne, PA, 1995 (distributor, International Publishers Distributor, Brooklyn, NY). xiv, 524 pp., illus. \$150 or £98 or ECU 125.

QED Coherence in Matter. Giuliano Preparata. World Scientific, River Edge, NJ, 1995. xiv, 236 pp., illus. \$67.

Recent Progress in Many-Body Theories. Vol. 4. E. Schachinger, H. Mitter, and H. Sormann, Eds. Plenum, New York, 1995. xiv, 477 pp., illus. \$135. From a conference, Liebnitz, Austria, Aug. 1994.

Standards, Conformity Assessment, and Trade. Into the 21st Century. International Standards, Conformity Assessment, and U.S. Trade Policy Project Committee, Board on Science, Technology, and Economic Policy, National Research Council. National Academy Press, Washington, DC, 1995. xiv, 238 pp., illus. Paper, \$37.95.

Statistical Mechanics and Stability of Macromolecules. Application to Bond Disruption, Base Pair Separation, Melting, and Drug Dissociation of the DNA Double Helix. Earl Prohovsky. Cambridge University Press, New York, 1995. x, 227 pp., illus. \$49.95.

Tissue Renin-Angiotensin Systems. Current Concepts of Local Regulators in Reproductive and Endocrine Organs. Amal K. Mukhopadhyay and Mohan K. Raizada, Eds. Plenum, New York, 1995. xii, 458 pp., illus. \$120. Advances in Experimental Medicine and Biology, vol. 377. Based on a symposium, Hamburg, Germany, July 1994.

Ultimate Limits of Fabrication and Measurement. M. E. Welland and J. K. Gimzewski, Eds. Kluwer, Norwell, MA, 1995. x, 254 pp., illus. \$132 or £84 or Dfl. 185. NATO ASI Series E, vol. 292. From a workshop, Cambridge, UK, April 1994.

Ultra-Wideband, Short-Pulse Electromagnetics 2. Lawrence Carin and Leopold B. Felsen, Eds. Plenum, New York, 1995. xiv, 605 pp., illus. \$139. From a conference, Brooklyn, NY, April 1994.

Variational Methods for Eigenvalue Problems. An Introduction to the Methods of Rayleigh, Ritz, Weinstein, and Aronszajn. S. H. Gould. Dover, New York, 1995. xii, 179 pp., illus. Paper, \$7.95. Reprint, 1957 ed.

Vegetation, Modelling and Climatic Change Effects. F. Veroustraete *et al.*, Eds. SPB Academic, Amsterdam, 1994. viii, 250 pp., illus. Paper, \$47 or Dfl. 75. Based on a workshop, Wilrijk, The Netherlands, Feb. 1993.

What Are Numbers and What Should They Be? Richard Dedekind. Research Institute for Mathematics, Orono, ME, 1995. viii, 91 pp. \$49.99. RIM Monographs in Mathematics. Revised, edited, and translated from the German edition (1888) by H. Pogorzelski, W. Ryan, and W. Snyder.

Publishers' Addresses

Below is information about how to direct orders for books reviewed in this issue. A fuller list of addresses of publishers represented in *Science* appears in the issue of 26 May 1995, page 1220.

Cambridge University Press, 110 Midland Ave., Port Chester, NY 10573-4930. Phone: 800-872-7423; 914-937-9600. Fax: 914-937-4712.

Geological Society, c/o AAPG Bookstore, P.O. Box 979, Tulsa OK 74101-0979. Phone: 800-364-2274; 918-584-2555. Fax: 918-560-2652. Email: apayne@aapg.org.

Springer-Verlag New York, Inc., 333 Meadowlands Parkway, Secaucus, NJ 07096. Phone: 800-777-4643; 201-348-4033. Fax: 201-348-4505.

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