



## Vignettes: Wildlife Without Fear

Swarms [of bees] often attach to tree branches in impressive, hanging conglomerations. Beekeepers seek out such swarms because they are easy to capture and place in a managed hive. You may have seen photographs of beekeepers scooping up bees by the handful or allowing the bees to swarm all over their bodies. They do this by applying pheromone or some honey first, so that the bees will be attracted to them. Another trick is to put a queen bee on your chin so that the swarming bees form a "bee beard." . . . These tricks are NOT recommended for amateurs.

—Greg Flakus, in *Living with Killer Bees: The Story of the Africanized Bee Invasion* (Quick Trading Company)

I recently encountered an approach that some see as an alternative to the removal of animals from the wild. Without moving anything but my eyes, I could see a thirty-five-pound iguana lizard, a ten-foot python, and more than a hundred red, yellow, and black king snakes. The situation was one that any comfort-loving herpetologist would enjoy. I was not standing in a tropical jungle; I was in the lobby of a Florida hotel.

—Whit Gibbons, in *Keeping All the Pieces: Perspectives on Natural History and the Environment* (Smithsonian Institution Press)

phages having the most utility as vectors for genetic manipulation. Unlike the *E. coli*-*S. typhimurium* manual, the book offers no description of how to manage these processes experimentally. For example, the chapter on transformation describes the many ways in which *Bacillus* can be induced to exchange genetic material (particularly useful is the discussion of the genetic pathways required for competence development), but there is no summary of how one would go about making a culture competent. Nor does the book contain information comparable to that in the *E. coli*-*S. typhimurium* volume on selectable markers for use in genetic manipulation and suggestions of the concentrations of antibiotics by which wild-type *E. coli* can be expected to be inhibited.

In addition to its limited usefulness for the experimentalist, the book has other drawbacks. The index is of uneven quality, often directing the reader to trivialities or omitting significant entries. Moreover, there is no coverage of capsular materials from various *Bacillus* derivatives, stress responses, macrofiber filamentation, unbalanced growth, or storage granules. In fact, poly- $\beta$ -hydroxybutyrate, the ubiquitous storage material of *Bacillus*, is not mentioned anywhere in the book. Despite these flaws, the book's effective organization and general approach make it ideal for the uninitiated or for the *Bacillus* expert seeking information about a specific field. In the end it succeeds in pointing out how widely *B. subtilis* and its close Gram-positive rela-

tives diverge from *E. coli* and its cousins, and for that reason alone is a valuable contribution.

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## Books Received

**Affinity and Matter.** Elements of Chemical Philosophy 1800-1865. Trevor H. Levere. Gordon and Breach, Philadelphia, 1993. xiv, 230 pp., illus., + plates. Paper, \$20 or £14; to institutions, \$36 or £22. Classics in the History and Philosophy of Science, vol. 12. Reprint, 1971 ed.

**Biological Applications of Photochemical Switches.** Harry Morrison, Ed. Wiley, New York, 1993. xii, 316 pp., illus., + plate. \$59.95. Bioorganic Photochemistry Series, vol. 2.

**Calcium-Dependent Potassium Channels.** Robert D. Hinrichsen. Landes, Georgetown, TX, 1993 (distributor, CRC Press, Boca Raton, FL). viii, 148 pp., illus. \$89.95. Molecular Biology Intelligence Unit.

**Dreaming as Cognition.** Corrado Cavallero and David Foulkes, Eds. Harvester Wheatsheaf (Simon and Schuster), Hemel Hempstead, U.K., 1993. x, 141 pp., illus. Paper, \$25.

**Elements of Graph Design.** Stephen M. Kosslyn. Freeman, New York, 1993. xiv, 309 pp., illus. \$28.95; paper, \$18.95.

**Fundamental Immunology.** William E. Paul, Ed. 3rd ed. Raven, New York, 1993. xxii, 1490 pp., illus. \$95.

**The Gulf War Aftermath.** An Environmental Tragedy. Muhammad Sadiq and John C. McCain, Eds. Kluwer, Norwell, MA, 1993. xiv, 298 pp., illus. \$137 or £90 or Dfl. 225. Environment and Assessment, vol. 4.

**Health Effects of Mineral Dusts.** George D. Guthrie, Jr. and Brooke T. Mossman, Eds. Mineralogical Society of America, Washington, DC, 1993. xvi, 584 pp., illus. Paper, \$28. Reviews in Mineralogy, vol. 28.

From a course, Nantucket Island, MA, Oct. 1993.

**In Our Own Hands.** A Strategy for Conserving California's Biological Diversity. Deborah B. Jensen, Margaret S. Torn, and John Harte. University of California Press, Berkeley, 1993. xviii, 302 pp., illus. \$45; paper, \$16.

**James B. Conant.** Harvard to Hiroshima and the Making of the Nuclear Age. James G. Hershberg. Knopf, New York, 1993. x, 950 pp. + plates. \$35.

**Living with Killer Bees.** The Story of the Africanized Bee Invasion. Greg Flakus. Quick American Archives, Oakland, CA, 1993. xvi, 144 pp., illus. Paper, \$12.95.

**Mathematical Theory of Incompressible Non-viscous Fluids.** Carlo Marchioro and Mario Pulvirenti. Springer-Verlag, New York, 1993. xii, 283 pp., illus. \$49. Applied Mathematical Sciences, vol. 96.

**Medical Audit.** Rationale and Practicalities. Simon P. Frostick, Philip J. Radford, and W. Angus Wallace, Eds. Cambridge University Press, New York, 1993. xvi, 441 pp., illus. Paper, \$49.95.

**New England Natives.** Sheila Connor. Harvard University Press, Cambridge, MA, 1993. xiv, 274 pp., illus., + plates. \$39.95.

**Numerical Linear Algebra.** Lothar Reichel, Arden Ruttan, and Richard S. Varga, Eds. De Gruyter, Hawthorne, NY, 1993. x, 202 pp., illus. DM 168. From a conference, Kent, OH, March 1992.

**Ogallala.** Water for A Dry Land. John Opie. University of Nebraska Press, Lincoln, 1993. xxii, 412 pp., illus. \$35. Our Sustainable Future, vol. 1.

**100 Inventions That Shaped World History.** Bill Yenne. Bluewood, San Francisco, CA, 1993. 112 pp., illus. Paper, \$7.95.

**The Origins of Chemistry.** Robert P. Multhauf. Gordon and Breach, Philadelphia, 1993. x, 412 pp. + plates. Paper, \$24 or £16; to institutions, \$48 or £31. Classics in the History and Philosophy of Science, vol. 13. Reprint, 1966 ed.

**Peace Works.** The Citizen's Role in Ending the Cold War. David Cortright. Westview, Boulder, CO, 1993. viii, 288 pp., illus. \$65; paper, \$19.95.

**Peptide Chemistry.** A Practical Textbook. Miklos Bodanszky. 2nd ed. Springer-Verlag, New York, 1993. xii, 198 pp., illus. Paper, \$29.95.

**Quantum Inverse Scattering Method and Correlation Functions.** V. E. Korepin, N. M. Bogoliubov, and A. G. Izergin. Cambridge University Press, New York, 1993. xx, 555 pp., illus. \$100. Cambridge Monographs on Mathematical Physics.

**Race to the Moon.** America's Duel with the Soviets. William B. Breuer. Praeger, Westport, CT, 1993. xii, 222 pp., illus., + plates. \$24.95.

**Recent Advances in Wavelet Analysis.** Larry L. Schumaker and Glenn Webb, Eds. Academic, San Diego, CA, 1993. xii, 364 pp., illus. \$59.95. Wavelet Analysis and Its Applications.

**The Science of Woman.** Gynaecology and Gender in England, 1800-1929. Ornella Moscucci. Cambridge University Press, New York, 1993. x, 278 pp., illus. Paper, \$16.95. Cambridge History of Medicine. Reprint, 1990 ed.

**Secret Science.** Federal Control of American Science and Technology. Herbert N. Foerstel. Praeger, Westport, CT, 1993. viii, 227 pp. \$24.95.

**Transmissible Spongiform Encephalopathies.** Impact on Animal and Human Health. F. Brown, Ed. Karger, New York, 1993. x, 233 pp., illus. Paper, \$176 or DM 263 or SwF 220. Developments in Biological Standardization, vol. 80. From a meeting, Heidelberg, Germany, June 1992.

**Trauma 2000.** Strategies for the New Millennium. David J. Dries and Richard L. Gamelli. Landes, Georgetown, TX, 1992 (distributor, CRC Press, Boca Raton, FL). vi, 202 pp., illus. \$89.95. Medical Intelligence Unit.

**Ultra-Wideband, Short-Pulse Electromagnetics.** Henry L. Bertoni, Lawrence Carin, and Leopold B. Felsen, Eds. Plenum, New York, 1993. xii, 542 pp., illus. \$115. From a conference, Brooklyn, NY, Oct. 1992.

**Visualizing Data.** William S. Cleveland. Hobart, Summit, NJ, 1993. vi, 360 pp., illus. \$40.

**Water Channels.** Alan S. Verkman. Landes, Georgetown, TX, 1993 (distributor, CRC Press, Boca Raton, FL). x, 117 pp., illus. \$89.95. Molecular Biology Intelligence Unit.