Vignettes: Around the Campuses

The University of Arizona is a real Ken and Barbie kind of place, with frats and sororities and lots of beautiful people.

—*Chris Langton*, as quoted by M. Mitchell Waldrop in *Complexity: The Emerging Science at the Edge of Order and Chaos* (Simon and Schuster)

A visitor . . . accustomed to the look and traffic patterns of major universities might find the grounds of the MIT campus remarkably underpopulated. Responsible people can speedskate over the sidewalks and do.

—*Fred Hapgood*, in *Up the Infinite Corridor: MIT and the Technical Imagination* (Addison-Wesley)

I don't like it here in Palo Alto. . . . I am in the academic demimonde. I am an editor and manager for a marginal publisher of doctoral dissertations languishing because they're too specialized or because they fall outside the desiderata of the regular university presses.

—The sometime-anthropologist main character in Norman Rush's novel *Mating* (Knopf, 1991; Vintage paperback)

The initial chapter, by George Rédei, is a fascinating account of past *Arabidopsis* research (including the author's difficulty in publishing some of his original studies on *Arabidopsis* mutants). The technical chapters on transformation using *Agrobacterium*, the establishment of linkage maps, genome mapping, analysis of proteins, and plant-pathogen interactions are interesting and clearly written, giving a context for the protocols. The protocols themselves are presented in such a useful way that postdoctoral staff and graduate students rushed to take my review copy of the book to use for our soybean research. I believe the volume will be valuable as well to those studying other plant species. In it we have a book that belongs on the desk of every molecular plant scientist. —**Peter M. Gresshoff**, *University of Tennessee*

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The Maize Handbook. MICHAEL FREELING and VIRGINIA WALBOT, Eds. Springer-Verlag, New York, 1993. xxvi, 759 pp., illus., + plate. $79 or £55. Springer Laboratory.

"In modern times, the view that other scientists are cooperators rather than competitors is unusual," write the editors of this volume, "but it is a key part of the maize community of scholars." Produced in this spirit, *The Maize Handbook* "represents the collective efforts of the maize research community to enumerate the key steps of standard procedures and to disseminate these protocols for the common good," including that of those working with other higher plants to which the procedures may be applicable. In all, 129 authors have contributed 133 items to the enterprise. The volume opens with nine brief contributions setting forth the basics of maize development and morphology. Another ten papers under the heading Cell Biology deal mainly with techniques related to microscopy, rather than with cellular processes per se. The remaining 640 pages of the text are given over to the protocols, among which are interspersed some not strictly methodological discussions of various features of maize such as the anthocyanin gene system. Of the items in this part of the book 63 are categorized as genetics, 37 as molecular biology, and 14 as cell culture. In length they range from one page (for instance, Birchler on ring chromosomes) to 17 (Chang and Neuffer on chromosome behavior during microsporogenesis). Illustrations include a 10½-page table of reciprocal translocations between A chromosomes (Coe) and a color plate showing results of gene tagging involving *Ac* and *Ds* transposable elements (Dellaporta and Moreno). Reference lists are appended to the individual contributions, and a 34-page subject index is included at the end of the book. In the preface the editors provide as other aids to the reader information about the Maize Genetics Cooperation Newsletter and a list of other books that should be in a "robust" library of the subject.

—*Katherine Livingston*

Books Received

The Analysis of Natural Waters. T. R. Crompton. Oxford University Press, New York, 1933. 2 vols. Vol. 1, Complex-Formation Preconcentration Techniques. xii, 216 pp., illus. $52.50. Vol. 2, Direct Preconcentration Techniques. xii, 249 pp., illus. $60.

And Yet It Moves. Strange Systems and Subtle Questions in Physics. Mark P. Silverman. Cambridge University Press, New York, 1993. xviii, 266 pp., illus. $49.95; paper, $24.95.

Applications of Environment-Behavior Research. Case Studies and Analysis. Paul D. Cherulnik. Cambridge University Press, New York, 1993. xiv, 342 pp., illus. $64.95; paper, $24.95. Cambridge Series in Environment and Behavior.

Biology. Exploring Life. Gil Brum, Larry McKane, and Gerry Karp. 2nd ed. Wiley, New York, 1994. Variously paged, illus. $58.95.

Biology of *Salmonella*. Felipe Cabello *et al.*, Eds. Plenum, New York, 1993. xii, 470 pp., illus. $115. NATO Advanced Science Institutes Series A, vol. 245. From an institute, Portorosa, Italy, May 1992.

The Biophilia Hypothesis. Stephen R. Kellert and Edward O. Wilson, Eds. Island Press, Washington, DC, 1993. viii, 484 pp., illus. $27.50.

California's Changing Landscapes. Diversity and Conservation of California Vegetation. Michael Barbour *et al.* California Native Plant Society, Sacramento, CA, 1993. x, 246 pp., illus. Paper, $24.95.

Capillary Electrophoresis of Small Molecules and Ions. Petr Jandik and Günther Bonn. VCH, New York, 1993. x, 298 pp., illus. $65.

Catalytic Asymmetric Synthesis. Iwao Ojima, Ed. VCH, New York, 1993. xiv, 476 pp., illus. $110.

Data Analysis for the Chemical Sciences. A Guide to Statistical Techniques. Richard C. Graham. VCH, New York, 1993. xx, 536 pp., illus. $65.

Digital Woes. Why We Should Not Depend on Software. Lauren Ruth Wiener. Addison-Wesley, Reading, MA, 1993. xx, 245 pp., illus. $22.95.

Dissociative Recombination. Theory, Experiment, and Applications. Bertrand R. Rowe, J. Brian A. Mitchell, and André Canosa, Eds. Plenum, New York, 1993. x, 282 pp., illus. $95. NATO Advanced Science Institutes Series B, vol. 313. From a workshop, Saint Jacut de la Mer, Brittany, France, May 1992.

The Ecology of Commerce. A Declaration of Sustainability. Paul Hawken. HarperBusiness, New York, 1993. xviii, 250 pp. $23.

80 Years of Hashimoto Disease. Shigenobu Nagataki, Toru Mori, and Kanji Torizuka, Eds. Excerpta Medica (Elsevier Science), Amsterdam, 1993. xxvi, 721 pp., illus. $237.25 or Dfl. 415. From a symposium, Fukuoka, Japan, Dec. 1992.

The Encyclopedia of Mental Health. Ada P. Kahn and Jan Fawcett. Facts on File, New York, 1993. xii, 464 pp. $45.

The Engineer in the Garden. Genes and Genetics. From the Idea of Heredity to the Creation of Life. Colin Tudge. Cape, London, 1993. xii, 398 pp. £17.99.

Epidermal Growth Factors and Cytokines. Thomas A. Luger and Thomas Schwarz, Eds. Dekker, New York, 1993. xviii, 486 pp., illus. $165. Clinical Dermatology, 10.

Field Guide to Coastal Wetland Plants of the Southeastern United States. Ralph W. Tiner. Abigail Rorer, illustrator. University of Massachusetts Press, Amherst, 1993. xiv, 328 pp. + plates. $50; paper, $17.95.

Flora of North America. North of Mexico. Nancy R. Morin, Convening Ed. Oxford University Press, New York, 1993. Vol. 1, Introduction. xxii, 372 pp., illus. Vol. 2, Pteridophytes and Gymnosperms. xvi, 475 pp., illus. Each. vol., $75.

G. I. Budker. Reflections and Remembrances. Boris N. Breizman and James W. Van Dam, Eds. American Institute of Physics, New York, 1993. xviii, 364 pp. + plates. $45. Translated from the Russian edition (1988).

Games of Life. Explorations in Ecology, Evolution, and Behaviour. Karl Sigmund. Oxford University Press, New York, 1993. viii, 244 pp., illus. $49.95; paper, $17.95.

Gene Conservation and Exploitation. J. Perry