

it of scientific inquiry, and the present book, pedestrian as it is, stands as proof that political repression of scientific discovery does not succeed, even if continued for some years and backed by the full power of the state. The great Russian geneticist Vavilov, who died in detention in Siberia shortly after the first purge under the ascendancy of the charlatan Lysenko, has always been recognized around the world as a leading pioneer in agricultural genetics. That one of the three organizing bodies of the 14th Congress is called the "All-union N. I. Vavilov Society of Geneticists and Breeders" is clear evidence that considerable healing has taken place.

Much to the relief of the international community, genetics in Russia appeared to make a recovery, albeit a slow one, from Lysenkoism, which essentially collapsed in 1964 with the fall of Khrushchev from power. Thereafter, genetical reports from the Soviet Union began to make sense again, and in 1965 the National Science Foundation provided a grant for the publication of continuing English translations of the leading Russian journal, *Genetika*. The decision to hold the 14th Congress in Moscow did not meet with anything like unanimous approval in international circles, yet all signs indicated that the political heat was off the science. Most felt that after 16 years it was time not only to make a new start but also to recognize the courage of those Russian geneticists who had risked everything by resuming their scientific work.

The attempt to hold a normal international congress in Moscow was, unfortunately, not successful. As August of 1978 approached, many invited Western geneticists withdrew from the symposia and from the congress. The causes of these withdrawals were various, but there was an undercurrent of relatedness. Despite protests from the West, Orlov and Scharansky were sent to jail for their roles as proponents of human rights; anti-Semitism in the Soviet Union was again in the public eye; and, perhaps most serious of all, visas for some important geneticists were not forthcoming, a situation that seemed to make a travesty of an "international" meeting.

In view of all these events, certain curious properties of the present book can be understood. Forty papers have been put together under one cover as volumes 52 and 53 of the leading Dutch journal *Genetica* (not to be confused with the Russian *Genetika*). All papers are in English although the co-editors are Russian and Dutch. Although printed with the usual elegance of the publisher, Dr.

Junk, the papers are presented in alphabetical order by author's name. This studied lack of favoritism results in a chaotic lack of organization; the impression given is that of a regular issue of a scientific periodical.

As might be expected, about half the authors are from laboratories in the Soviet Union, and it is delightful to see these papers published together in a Western language. The preface states: "The heart of the volume is made up by reports of Symposium S 16 ('Problems in evolutionary and population genetics') . . . and of Session C 11 ('Animal cytogenetics and karyosystematics')." I don't know about session C 11, but, as an invited speaker at symposium S 16, I received a letter dated 3 January 1978 that listed 12 participants who had accepted invitations, along with the titles of their papers. Only five of these papers appear in this book, and four of them are from nations of the Eastern bloc. The rest of the volume is made up of contributed papers taken from various other sessions in animal genetics at the congress. Little evolutionary emphasis can be discerned in any of these papers. One surprise is the remarkable interest in Russia in chromosome counts and banding techniques, especially as applied to mammals. Well over half the papers deal with such cytogenetics, and this collection is an important feature of the book. Only one author, however (from Venezuela), has seen fit to mention the great seminal work in his field of the Israeli scientist Eviatar Nevo on the mole rat, *Spalax*. The lack of an index makes the job of gleaning facts of this sort a difficult one. Moreover, the problem of presenting references from the Cyrillic alphabet has not always been successfully dealt with. A considerable deciphering job remains to be done if these citations are to be used as an introduction to the Russian literature.

In addition to the work on vertebrate chromosomes, there are about six papers dealing with insects, two with isozymes, and two with DNA. The last present melting curve comparisons for vertebrates. Both are from Russian laboratories, and the results are discussed in a manner that manifests full appreciation of the Western literature. Nevertheless, they stand alone in the volume.

Scattered through the book there are six papers dealing with theoretical topics. The three Western authors all have something interesting to say. Ayala makes a good case for equating regulatory genes and polygenes; Holmquist has recast chromosomal evolution in a new and promising context; and Ohno gives a

short and elegant review of the newer developments in mammalian sex determination and differentiation, with special attention centered on the extraordinary case of the H-Y antigen. Of the other papers, that of Golubovsky from Novosibirsk has the greatest sweep. He ties in the older classical Russian literature on outbursts of mutability with his own recent work and the remarkable findings of Green, Kidwell, and others in the West. It is an exciting and sophisticated paper, joining East and West.

Genetics is alive but not very well in the Soviet Union. That the grand rapprochement that was to have taken place in 1978 fell on hard times in no way reflects discredit on the editors of this strange volume. We must be thankful to them that this much was salvaged for those, including the writer, who chose not to attend. It is safe to say that all concerned hope for a better day when communication across the morass of politics is somehow easier.

HAMPTON L. CARSON

Department of Genetics,  
University of Hawaii at Manoa,  
Honolulu 96822

## Some Data on Book Prices

Authors, reviewers, and readers often express concern over the prices of books. To provide an indication of recent prices of books of interest to scientists, Table 1 gives average prices for the books reviewed in *Science* over the last few years, with separate calculations for the technical books in the natural sciences (representing about 60 percent of the total).

All the data given here represent hardcover books except where books were available only in paperback. For the books available in both forms that were reviewed in 1980, the average difference in price between the two editions was \$19.67, the range of differences being \$8

Table 1. Average per-volume prices of books reviewed in *Science*, 1977-1980. Books priced only in foreign currencies were excluded from the calculation.\*

| Category                                  | Price (dollars) |       |       |       |
|---|-----------------|-------|-------|-------|
|   | 1977            | 1978  | 1979  | 1980  |
| All books                                 | 27.85           | 29.65 | 30.33 | 35.52 |
| Technical books<br>in natural<br>sciences | 32.70           | 36.04 | 39.18 | 42.61 |

\*Some of the data here were originally published, with further discussion, in *Paleobiology* 6 (4), 377 (1980). I thank Janet Kegg for help with the calculations.

to \$34.85. The average prices per page for the natural science books for the years covered in Table 1 were 6.8¢, 7.8¢, 8.6¢, and 9.0¢.

The figures given in Table 1 for technical books in the natural sciences are on average about 30 percent higher than the comparable figures from the frequently cited annual tabulations published by the R. R. Bowker Company (see, for example, *Publishers Weekly* 26 Sept. 1980 and the yearly volumes of the *Bowker Annual of Library and Book Trade Information*). The principal reason for the difference no doubt is that the Bowker tabulation headed "science" includes books intended for general audiences, whereas the *Science* tabulation represents professional-level books almost exclusively.

If documentation were needed that the price of books has been increasing, Table 1 provides some. For the period covered the total increase in the average price of books reviewed in *Science* was 27.5 percent and the increase in the average price of the natural science books was 30.3 percent. Year by year, the rate of increase in the price of natural science books as represented in Table 1 (10.2 percent, 8.7 percent, and 8.8 percent) was relatively steady by comparison with rates of increase as indicated by the overall data from *Science* or by the Bowker data for books in science or for books generally. Over the years covered in Table 1 the increase in the (annual average) Consumer Price Index was 36.1 percent, and the increase in average faculty salaries as reported by the American Association of University Professors (1976-77 to 1979-80) was 20.6 percent.

KATHERINE LIVINGSTON

## Science

## Books Received

**Alternative Methods of Agriculture.** R. Boeringa, Ed. Elsevier, New York, 1980. vi, 200 pp. \$48.75. Developments in Agricultural and Managed-Forest Ecology, vol. 10.

**Amber.** The Golden Gem of the Ages. Patty C. Rice. Van Nostrand Reinhold, New York, 1980. xii, 290 pp., illus. + plates. \$26.95.

**Animals, Feed, Food and People.** An Analysis of the Role of Animals in Food Production. Papers from a AAAS symposium, Houston, Jan. 1979. R. L. Baldwin, Ed. Published for the American Association for the Advancement of Science by Westview Press, Boulder, Colo., 1980. xxii, 150 pp., illus. \$15. AAAS Selected Symposia Series, vol. 42.

**Annual Review of Earth and Planetary Sciences.** Vol. 8. Fred A. Donath, Francis G. Stehli, and George W. Wetherill, Eds. Annual Reviews, Palo Alto, Calif., 1980. x, 626 pp. illus. \$17.

**Anthracylines.** Proceedings of a workshop, Norfolk, Va., June 1979. Stanley T. Croke and Steven D. Reich, Eds. Academic Press, New York, 1980. xiv, 444 pp., illus. \$27.50.

**Biochemistry of Dementia.** Papers from a workshop, Southampton, Mar. 1979. P. J. Roberts, Ed. Wiley-Interscience, New York, 1980. xiv, 272 pp., illus. \$46.

**The Biocultural Basis of Health.** Expanding Views of Medical Anthropology. Lorna G. Moore, Peter

W. Van Arsdale, JoAnn E. Glittenberg, and Robert A. Aldrich. Mosby, St. Louis, 1980. x, 278 pp., illus. Paper, \$11.95.

**Climatic Change in Canada.** National Museums of Natural Sciences Project on Climatic Change in Canada during the Past 20,000 Years, 1977-78. C. R. Harrington, Ed. National Museum of Natural Sciences, Ottawa, 1980. 246 pp., illus. Paper. *Syllogeus*, No. 26.

**Climatic Races and Descent Groups.** Grover S. Krantz. Christopher Publishing House, North Quincy, Mass., 1980. 272 pp., illus. \$14.95.

**COBOL Programming.** A Structured Approach. Peter Abel. Reston (Prentice-Hall), Reston, Va., 1980. xvi, 408 pp., illus. Paper, \$12.95.

**Cocaine Users.** A Representative Case Approach. James V. Spotts and Franklin C. Shontz. Free Press (Macmillan), New York, and Collier Macmillan, London, 1980. x, 518 pp., illus. \$19.95.

**Current Topics in Eye Research.** Vol. 2. Jose A. Zadunaisky and Hugh Davson, Eds. Academic Press, New York, 1980. xiv, 308 pp., illus. \$35.

**Currents in Alcoholism.** Vol. 7, Recent Advances in Research and Treatment. Marc Glanater, Ed. Grune and Stratton, New York, 1980. xxii, 548 pp., illus. \$48.

**Drafting and Manual Programming for Numerical Control.** Harold L. Chambers and Caryl Ann Chacey. Prentice-Hall, Englewood Cliffs, N.J., 1980. xxviii, 532 pp., illus. \$28.95.

**Drug-Induced Sufferings.** Medical, Pharmaceutical and Legal Aspects. Proceedings of a conference, Kyoto, Japan, Apr. 1979. T. Soda, Ed. Excerpta Medica, Amsterdam, 1980 (U.S. distributor, Elsevier/North-Holland, New York), xxii, 516 pp., illus. \$97.50.

**Educating Medical Teachers.** George E. Miller, Harvard University Press, Cambridge, Mass., 1980. xii, 236 pp. \$15. A Commonwealth Fund Book.

**The Effect of Air Ionization, Electric Fields, Atmospheres and Other Electric Phenomena on Man and Animal.** Felix Gad Sulman. Thomas, Springfield, Ill., 1980. xx, 398 pp., illus. Cloth, \$24.75; paper, \$18.75. American Lecture Series Publication No. 1029.

**The 8080-8085 Microprocessor Book.** Intel Marketing Communications. Wiley-Interscience, New York, 1980. xvi, 604 pp., illus. Paper, \$19.50.

**Elkaos. A History.** John J. Stanley. Vantage, New York, 1979. xviii, 158 pp. \$6.95.

**Elementary Computer Programming in FORTRAN IV.** Boris W. Boguslavsky. Reston (Prentice-Hall), Reston, Va., ed. 2, 1980. xii, 482 pp. Paper, \$17.95.

**The Embryogenesis of the Human Skull.** An Anatomic and Radiographic Atlas. Robert Shapiro and Franklin Robinson. Harvard University Press, Cambridge, Mass., 1980. xiv, 102 pp. \$45. A Commonwealth Fund Book.

**Encouraging Girls in Mathematics.** The Problem and the Solution. Lorelei R. Brush with the assistance of Cynthia Char, Nancy Irwin, and Glen Takata. Abt Books, Cambridge, Mass., 1980. xvi, 164 pp. \$16.

**Fungal Polysaccharides.** Papers from a symposium, Honolulu, Apr. 1979. Paul A. Sandford and Kazuo Matsuda, Eds. American Chemical Society, Washington, D.C., 1980. x, 284 pp., illus. \$31.50. ACS Symposium Series, 126.

**Gastrointestinal Hormones.** George B. Jerzy Glass, Ed. Raven, New York, 1980. xxii, 1008 pp., illus. \$85.

**General Chemistry.** Principles and Structure. James E. Brady and Gerard E. Humiston. SI Version Prepared by Henry Hikkinen. Wiley, New York, ed. 2, 1980. xvi, 780 pp., illus. \$21.50.

**The Geometry of Biological Time.** Arthur T. Winfree. Springer-Verlag, New York, 1980. xiv, 530 pp., illus. \$32. Biomathematics, vol. 8.

**Glass. Science and Technology.** Vol. 5, Elasticity and Strength in Glasses. D. R. Uhlmann and N. J. Kreidl, Eds. Academic Press, New York, 1980. xii, 282 pp., illus. \$35.

**Handbook of Stopping Cross-Sections for Energetic Ions in All Elements.** J. F. Ziegler. Pergamon, New York, 1980. iv, 432 pp. \$50. The Stopping and Ranges of Ions in Matter, vol. 5.

**Handbuch zur Bestimmung der europäischen Borkenkäfer.** Brief Illustrated Key to European Bark Beetles. Sabine Grüne. Schaper, Hannover, Germany, 1979. 182 pp. DM 38.40.

**The Hawaiian Goose.** An Experiment in Conservation. Janet Kear and A. J. Berger. Buteo Books, Vermillion, S.D., 1980. 156 pp., illus. + plates. \$30.

**Herculine Barbin.** Being the Recently Discovered Memoirs of a Nineteenth-Century French Hermaphrodite. Introduced by Michael Foucault. Translated from the French edition (1978) by Richard McDougall. Pantheon, New York, 1980. xviii, 202 pp. Cloth, \$8.95; paper, \$4.95.

**The Herders of Cyrenaica.** Ecology, Economy, and Kinship among the Bedouin of Eastern Libya. Roy H. Behnke, Jr. University of Illinois Press, Urbana, 1980. xii, 198 pp., illus. + plates. Paper,

\$11.95. Illinois Studies in Anthropology, No. 12.

**Immune Complexes in Clinical and Experimental Medicine.** Ralph C. Williams, Jr. Harvard University Press, Cambridge, Mass., 1980. x, 566 pp., illus. \$50. A Commonwealth Fund Book.

**Indian Hill Birds.** S9ALIM Ali. Illustrated by G. M. Henry. Oxford University Press, New York, 1980. lvi, 188 pp. \$24.95. Reprint of the 1949 edition.

**Integration in the Nervous System.** A Symposium in Honor of David P. C. Lloyd and Rafael Lorente de N6. New York, May 1978. Hiroshi Asanuma and Victor J. Wilson, Eds. Igaku-Shoin, New York, 1979. x, 358 pp., illus. \$52.50.

**Modern Trends in the Theory of Condensed Matter.** Proceedings of a school, Karpacz, Poland, Feb. 1979. A. Pekalski and J. Przystawa, Eds. Springer-Verlag, New York, 1980. x, 598 pp., illus. Paper, \$40.20. Lecture Notes in Physics, vol. 115.

**Modification of Polymers.** Papers from a symposium, Honolulu, Apr. 1979. Charles E. Carraher, Jr., and Minoru Tsuda, Eds. American Chemical Society, Washington, D.C., 1980. xii, 500 pp., illus. \$39.50. ACS Symposium Series, 121.

**Multiple Criteria Decision Making Theory and Application.** Proceedings of a conference, Hagen/Königswinter, Germany, Aug. 1979. G. Fandel and T. Gal, Eds. Springer-Verlag, New York, 1980. xvi, 570 pp., illus. Paper, \$44.90. Lecture Notes in Economics and Mathematical Systems, vol. 177.

**Natural Convection.** Heat and Mass Transfer. Yogesh Jaluria. Pergamon, New York, 1980. x, 326 pp., illus. \$51. HMT: The Science and Applications of Heat and Mass Transfer.

**New Anticancer Drugs.** Papers from a symposium, Tokyo, June 1978. Stephen K. Carter and Yoshio Sakurai, Eds. Springer-Verlag, New York, 1980. xii, 232 pp., illus. \$49. Recent Results in Cancer Research, 70.

**Paleoanthropology.** Milford H. Wolpoff. Knopf, New York, 1980. xxxii, 384 pp., illus. \$19.95.

**Pavlovian Second-Order Conditioning.** Studies in Associative Learning. Robert A. Rescorla. Erlbaum, Hillsdale, N.J., 1980 (distributor, Halsted [Wiley], New York. viii, 120 pp., illus. \$14.95.

**Psychotherapy and Training in Clinical Social Work.** Judith Mishne, Ed. Gardner Press, New York, 1980 (distributor, Halsted [Wiley], New York). xvi, 288 pp. \$22.95.

**Purification of Laboratory Chemicals.** D. D. Perrin, W. L. F. Armarego, and D. R. Perrin. Pergamon, New York, ed. 2, 1980. x, 568 pp. \$72.

**Recent Advances in Ultrasound Diagnosis 2.** Proceedings of a symposium, Dubrovnik, Oct. 1979. Asim Kurjak, Ed. Excerpta Medica, Amsterdam, 1980 (U.S. distributor, Elsevier/North-Holland, New York). x, 560 pp., illus. \$97.50.

**Recent Perspectives on American Sign Language.** Harlan Lane and François Grosjean, Eds. Erlbaum, Hillsdale, N.J., 1980. vi, 170 pp. \$16.50.

**Rehabilitation of the Visually Disabled and the Blind at Different Ages.** Papers from a symposium, Basel, June 1980. Balder Gloor and Roland Brückner, Eds. University Park Press, Baltimore, 1980. 164 pp., illus. Paper, \$29.50.

**Research Animals and Experimental Design in Nephrology.** Papers from a symposium, Hannover, Dec. 1978. H. Stölte and J. Alt, Eds. Karger, Basel, 1980. x, 250 pp., illus. Paper, \$53.50.

**The Sounds of Speech Communication.** A Primer of Acoustic Phonetics and Speech Perception. J. M. Pickett. University Park Press, Baltimore, 1980. xiv, 250 pp., illus. \$19.95. Perspectives in Audiology Series.

**Spacetime, Geometry, Cosmology.** William L. Burke. University Science Books, Mill Valley, Calif., 1980. xxii, 330 pp., illus. \$22.50.

**Speaking of Apes.** A Critical Anthology of Two-Way Communication with Man. Thomas A. Sebeok and Jean Umiker-Sebeok, Eds. Plenum, New York, 1980. xx, 480 pp., illus. \$37.50. Topics in Contemporary Semiotics.

**Surges in High-Voltage Networks.** Proceedings of a symposium, Baden, Switzerland, Sept. 1979. Klaus Ragaller, Ed. Plenum, New York, 1980. xxiv, 424 pp., illus. \$47.50. Brown Boveri Symposia.

**Teaching Linguistically Handicapped Children.** Mildred Freburg Berry. Prentice-Hall, Englewood Cliffs, N.J., 1980. xvi, 318 pp., illus. \$16.95.

**Text Anxiety.** Theory, Research, and Applications. Irwin Ag. Sarason, Ed. Erlbaum, Hillsdale, N.J., 1980. x, 406 pp. \$24.95.

**Text, Discourse, and Process.** Toward a Multidisciplinary Science of Texts. Robert de Beaufort. Ablex, Norwood, N.J., 1980. xvi, 352 pp., illus. \$27.50. Advances in Discourse Processes Series, vol. 4.

**The Virial Coefficients of Pure Gases and Mixtures.** A Critical Compilation. J. H. Dymond and E. B. Smith. Clarendon (Oxford University Press), New York, 1980. xvi, 518 pp. \$69.

**Visual Coding and Adaptability.** Charles S. Harris, Ed. Erlbaum, Hillsdale, N.J., 1980. viii, 392 pp., illus. \$24.95.