

surprises many geologists to find that so little has been written about the basic geology of the islands in the international literature. This translation of a collection of ten papers by Japanese geologists is intended to correct this situation. In general, the translation is well done and the book is quite readable, though there is little to tie the papers together beyond a brief introductory chapter and a general chapter on geotectonic history. Most of the chapters focus on the distribution of specific rock assemblages or age provinces. Other chapters review submarine topography and the distribution of ore deposits. These chapters are decidedly descriptive and taxonomic; they are useful principally as an introduction to the basic lithologic framework of Japan. The book contains minimal descriptive structural geology, and little attention is paid to absolute age constraints on various rock packages. The editor states that the book was considerably revised during translation, but I found no citations of papers later than the mid-1980s. Though the book is a useful reference, it leaves the reader longing for a more up-to-date review.

—Kip Hodges, *Massachusetts Institute of Technology*

Sakharov Memorial Lectures in Physics. L. V. KELDYSH and V. YA. FAINBERG, Eds. Nova, Commack, NY, 1992. In two volumes. xlv, 1211 pp., illus. \$195. From a conference, Moscow, May 1991.

In May of last year the first of what is evidently intended to be a series of International Sakharov Conferences on Physics was convened in Moscow. Some 400 scientists, including about 100 from other nations, reportedly participated in the event, which was organized by the P. N. Lebedev Physical Institute with sponsorship by a number of other organizations inside and outside the Soviet Union. This two-volume proceedings from the conference presents some 100 papers in which 83 authors report on topics "closely related to the fundamental scientific concepts and the problems investigated by A. D. Sakharov." Volume 1 contains papers on field theory, quantum mechanics and mathematical method in physics, and superstrings, and volume 2 deals with the general topics of experiment, elementary particles, and quantum gravity and cosmology. Most of the papers, which are printed directly from typescript in (not always idiomatic) English, are highly technical in nature, partial exceptions including a philosophical essay on space-time by John Archibald Wheeler and comments on the cold fusion episode by Douglas R. O. Morrison and V. A. Tsarev. More in the nature of memoirs are the preface to the work, in

which Boris L. Altschuler of the Lebedev Institute comments on both Sakharov's scientific work and his political activities, and an appendix that reprints some dozen presentations made at a special Sakharov memorial session. Also included as an appendix is a report by Richard Wilson on the human rights situation in Armenia with an attendant resolution on the matter that was passed by the conference. A list of papers not printed in the proceedings and an index by general subject of those that are included end the work.—Katherine Livingston

Books Received

Atom-Photon Interactions. Basic Processes and Applications. Claude Cohen-Tannoudji *et al.* Wiley, New York, 1992. xxiv, 656 pp., illus. \$69.95. Translated from the French edition (Paris, 1988).

Attitudes to Genetic Engineering. Japanese and International Comparisons. Darryl R. J. Macer. Eubios Ethics Institute, Christchurch, New Zealand, 1992. viii, 328 pp., illus. \$35. Text in English and Japanese.

Audition. Pierre Buser and Michel Imbert. MIT Press, Cambridge, MA, 1992. xii, 394 pp., illus. \$34.95. A Bradford Book. Translated from the French edition (Paris, 1987) by R. H. Kay.

Coherence Phenomena in Atoms and Molecules in Laser Fields. Andr D. Bandrauk and Stephen C. Wallace, Eds. Plenum, New York, 1992. x, 406 pp., illus. \$115. NATO Advanced Science Institutes Series B, vol. 287. From a workshop, Hamilton, Canada, May 1991.

Combinatorics and Partially Ordered Sets. Dimension Theory. William T. Trotter. Johns Hopkins University Press, Baltimore, MD, 1992. xvi, 307 pp., illus. \$45. Johns Hopkins Series in Mathematical Sciences.

Compendium of Thermophysical Property Measurement Methods. Vol. 2, Recommended Measurement Techniques and Practices. K. D. Maglic *et al.*, Eds. Plenum, New York, 1992. xviii, 643 pp., illus. \$139.50.

The Computational Brain. Patricia S. Churchland and Terrence J. Sejnowski. MIT Press, Cambridge, MA, 1992. xiv, 544 pp., illus. \$39.95. A Bradford Book. Computational Neuroscience.

Computer Vision and Image Processing. Linda J. Shapiro and Azriel Rosenfeld, Eds. Academic Press, San Diego, CA, 1992. xiv, 623 pp., illus. \$120.

Conrad Ferdinand Meyer and Freud. The Beginnings of Applied Psychoanalysis. Alexander Grinstein. International Universities Press, Madison, CT, 1992. xvi, 399 pp., illus. \$49.50.

Contraception and Abortion from the Ancient World to the Renaissance. John M. Riddle. Harvard University Press, Cambridge, MA, 1992. x, 245 pp., illus. \$39.95.

Cooperation. Beyond the Age of Competition. Allan Combs, Ed. Gordon and Breach, Philadelphia, 1992. xv, 248 pp., illus. \$20. World Futures General Evolution Studies, vol. 4.

Coping with Science. Gernot Böhme. Westview, Boulder, CO, 1992. viii, 122 pp. \$34.95.

The Correspondence of John Bartram, 1734-1777. Edmund Berkeley and Dorothy Smith Berkeley, Eds. University Press of Florida, Gainesville, 1992. xvi, 809 pp., illus. \$125.

The Corrupted Sciences. Challenging the Myths of Modern Science. Arnold Arnold. Paladin (HarcourtCollins), London, 1992. 398 pp., illus. 20.

Criminal Behavior. A Process Psychology Analysis. Nathaniel J. Pallone and James J. Hennessy. Transaction Publishers, New Brunswick, NJ, 1992. xviii, 466 pp., illus. \$34.95.

Extinction and Phylogeny. Michael J. Novacek and Quentin D. Wheeler, Eds. Columbia University Press, New York, 1992. viii, 253 pp., illus. \$50.

From Stone to Star. A View of Modern Geology. Claude Allègre. Harvard University Press, Cambridge, MA, 1992. xii, 287 pp., illus. \$39.95. Translated from

the French edition by Deborah Kurmes Van Dam.

Fundamental Properties of the Neutron. Yu. A. Alexandrov. Clarendon (Oxford University Press), New York, 1992. x, 210 pp., illus. \$70. Oxford Series on Neutron Scattering in Condensed Matter, vol. 6. Translated from the Russian by T. F. Drozdova.

History and Evolution. Matthew H. Nitecki and Doris V. Nitecki, Eds. State University of New York Press, Albany, NY, 1992. viii, 269 pp. Paper, \$16.95. SUNY Series in Philosophy and Biology. From a symposium, Chicago, IL, May 1989.

How Psychiatrists Look at Aging. George H. Pollock. International Universities Press, Madison, CT, 1992. xiv, 244 pp. \$32.50. Mental Health Library Series, Monograph 1.

How the World Was One. Beyond the Global Village. Arthur C. Clarke. Bantam, New York, 1992. xvii, 296 pp. \$22.

Human Development and Homeostasis. The Science of Psychiatry. William E. Powles. International Universities Press, Madison, CT, 1992. xviii, 622 pp. \$65.

Hyperalgesia and Allodynia. William D. Willis, Ed. Raven, New York, 1992. xvi, 400 pp., illus. \$98. Bristol-Myers Squibb Symposium on Pain Research. From a symposium, Galveston, TX, May 1991.

Masters of Time. Cosmology at the End of Innocence. John Boslough. Addison-Wesley, Reading, MA, 1992. xii, 266 pp., illus. \$22.95. A William Patrick book.

Memory. Organization and Locus of Change. Larry R. Squire *et al.*, Eds. Oxford University Press, New York, 1992. xiv, 423 pp., illus. \$65. From a conference, Irvine, CA, Oct. 1990.

Metal Recovery from Industrial Waste. Clyde S. Brooks with contributions by Philip L. Brooks, George Hansen, and Laurel A. McCarthy. Lewis, Chelsea, MI, 1992. xviii, 267 pp. \$59.95.

Methods to Assess Adverse Effects of Pesticides on Non-target Organisms. Robert G. Tardiff, Ed. Wiley, New York, 1992. xxviii, 270 pp., illus. \$65. Scope, 49.

Microbial Control of Pollution. J. C. Fry *et al.*, Eds. Cambridge University Press, New York, 1992. xii, 343 pp., illus. \$110. From a symposium, Cardiff, Wales, 1992.

Microclimate, Vegetation and Fauna. Ph. Stoutjesdijk and J. J. Barkman. Opulus, Knivsta, Sweden, 1992. iv, 216 pp., illus. Paper, \$38. Translated from the Dutch edition (Wageningen, the Netherlands, 1987) by Marijke and Eddy van der Maarel.

Modern Acarology. František Dušbábek and Vladimir Bukva, Eds. SPB Academic, The Hague, 1992. 2 vols. Vol. 1, viii, 651 pp., illus., + plates. Vol. 2, x, 779 pp., illus., + plates. The two, \$176. From a conference, České Budějovice, Czechoslovakia, Aug. 1990.

Molecular Biology of Free Radical Scavenging Systems. John G. Scandalios, Ed. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1992. x, 284 pp., illus. Paper, \$45. Current Communications in Cell and Molecular Biology, 5.

Monitoring the Environment. The Linacre Lectures, 1990-91. Bryan Cartledge, Ed. Oxford University Press, New York, 1992. viii, 216 pp., illus. \$45.

Museums and Communities. The Politics of Public Culture. Ivan Karp, Christine Mullen Kreamer, and Steven D. Lavine, Eds. Smithsonian Institution Press, Washington, DC, 1992. x, 614 pp., illus. \$45; paper, \$16.95. From a conference, Washington, DC, March 1990.

Polymer Latexes. Preparation, Characterization, and Applications. Eric S. Daniels, E. David Sudol, and Mohamed S. El-Aasser, Eds. American Chemical Society, Washington, DC, 1992. x, 462 pp., illus. \$99.95. ACS Symposium Series. From a symposium, Atlanta, GA, April 1991.

Pre-Equilibrium Nuclear Reactions. E. Gadioli and P. E. Hodgson. Clarendon (Oxford University Press), New York, 1992. xii, 518 pp., illus. \$125. Oxford Studies in Nuclear Physics, 15.

Principles of Water Law and Administration. National and International. Dante A. Caponera. Balkema, Brookfield, VT, 1992. xx, 260 pp. \$185.

Sulphur Cycling on the Continents. Wetlands, Terrestrial Ecosystems and Associated Water Bodies. R. W. Howarth *et al.*, Eds. Wiley, New York, 1992. xxii, 350 pp., illus. \$75. Scope, 48. From a workshop.