

writers contributed essays on subjects that range from Brooke Hindle's "The Underside of the Learned Society in New York, 1754-1854" to "The Early Development of Scientific Societies in Canada" by Peter J. Bowler. A number of contributors focus on regional aspects of such organizations in Albany, Boston, Philadelphia, the Southeastern US and the Ohio Valley. Some have chosen to concentrate on narrowly defined times and topics, as in Sally G. Kohlstedt's account of the American Association for the Advancement of Science in the years 1848-1860; others span many years in broad treatments of medical and agricultural societies. This scholarly compilation's potential audience includes not only historians of science but the more broadly based students of intellectual development in North America.

Films on Solid Surfaces: The Physics and Chemistry of Physical Adsorption. J. G. Dash. 273 pp. Academic, New York, 1975. \$26.00

In the first chapter of a work "written for the community of physical and biological scientists now working in fields involving physical adsorption and surface science," J. Gregory Dash suggests as motivations for the study of his topic such areas of application as adhesion, biological membranes, composite materials, heterogeneous catalysis, corrosion, fracture, lubrication and thin-film electronics. He begins by introducing the reader to the atomic basis of adsorption and the statistical thermodynamics of physisorption, along with a review of the relevant experimental approaches. There follow four chapters on the various states of films and their phase transitions; Dash concludes with an examination of heterogeneous-film problems and an account of another phenomenon of contemporary interest, superfluidity. Electron micrographs illustrate the volume.

Atlas of Light Scattering Curves. P. J. Wyatt, ed. Science Spectrum, Santa Barbara, 1975. \$95.00

The nature of this atlas defies the achievement of any meaningful page count; perhaps it will prove most helpful to note that the volume includes more than 300 light-scattering curves for a variety of model particles. Printed on semi-transparent vellum stock, the curves should lend themselves to direct comparison with the experimenter's data. Four sections comprise the atlas: scattering from single homogeneous spheres (136 curves), from individual spherically symmetric aerosolized bacterial cells (64 curves), from particles of complex refractive index (58 curves) and from particle distributions in aqueous suspension. The publishers, who periodically produce additional scattering curves, offer all supplements issued during the year after purchase free of charge to atlas buyers;

also, they grant a ten-day examination period to those ordering the book.

The Genesis Strategy: Climate and Global Survival. S. H. Schneider (with L. E. Mesirow). 419 pp. Plenum, New York, 1976. \$14.95

The "strategy" espoused by Stephen Schneider may be summed up in two words: Be prepared. Credit for this prescription goes not to Schneider, nor even to international scouting, but rather to Joseph, the biblical seer who interpreted Pharaoh's dream cattle as fat years and lean years. The survival of humanity is the issue in this volume, and the author considers food politics and the overpopulation predicament as well as climate modification, inadvertent and otherwise. The presentation appears balanced and sometimes hopeful; this is no doomsday book.

Holography in Medicine (Proc. of an Int. Symposium, New York, 1973). P. Greguss, ed. 149 pp. IPC Science and Technology, Guildford, Surrey, England, 1976. £9.00

Numerous photographs—of apparatus, of holograms, of Moiré patterns and of fringes formed on a cat's fundus—enliven what might otherwise have appeared to be just another book of proceedings; the illustrations actually outnumber the pages, 165 to 149. Forty-two authors have contributed to this volume, including Dennis Gabor, whose Nobel prize-winning discovery of holography was marked by this twenty-fifth anniversary meeting. Pal Greguss has edited a diverse collection, with sections on holographic principles, use of the technique as a diagnostic tool and in ophthalmology, and bioholography. The contributors attempt to show how the holographic approach may lead to a better understanding of nature, as well as to improvements in clinical practice and biomedical tools.

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Hadron Interactions at Low Energies: Physics and Applications, Vol. 1 (Proc. of the Triangle Meeting, Bratislava, November 1973). D. Krupa, J. Pisut, eds. 437 pp. Veda, Bratislava, 1975.

Nuclei, Nuclear Physics

Peaceful Nuclear Explosions, Vol. 4 (Proc. of a Technical Committee on the Peaceful Uses of Nuclear Explosions, IAEA, Vienna, January 1975). 479 pp. International Atomic Energy Agency, Vienna, 1975. \$30.00

Steps to Nuclear Power: A Guidebook (Technical Reports Series, Vol. 164). 106 pp. International Atomic Energy Agency, Vienna, 1975. \$7.50

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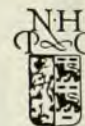
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Astronomy, Space Physics

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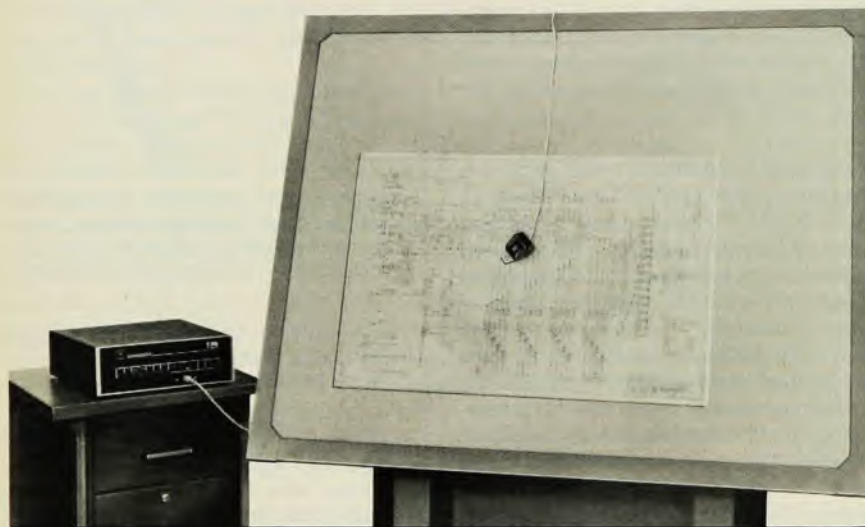
Science for Society: A Bibliography, 6th edition. J. M. Dasbach. 104 pp. American Association for the Advancement of Science, Washington, D.C., 1976. \$3.00

Science in America since 1820. N. Reingold, ed. 334 pp. Science History (Neale Watson), New York, 1976. \$8.95 clothbound, \$5.95 paperbound.

Miscellany

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