

of the Anniversary Issue, "20 Discoveries That Changed Our Lives."

During the past 4 years, *Science 84* has won numerous awards for the quality of its writing and art work. It has repeatedly won the most prestigious awards in the magazine industry. In 1982 and again in 1983, the magazine won the National Magazine Award for General Excellence of the Magazine Publishers Association. This was the first time that any magazine had ever won the General Excellence Award for two consecutive years.

"We are pleased to have survived—and even thrived—for the past 5 years" said Hammond, "and we look at the special Fifth Anniversary Issue as a sign of what is to come: more in-depth presentation of the way scientific and technological innovation affects our lives, more coverage of the cutting edge of science and technology."

JEFFREY L. TERAMANI

*Office of Communications*

## Report on Talent Pool for Science and Engineering Published

The 1984 annual joint meeting of the Scientific Manpower Commission and the Engineering Manpower Commission took a broad look at the need for training future scientists and engineers and at the outlook for meeting those needs.

The 15 May meeting brought together leaders from government, industry, academe, and the scientific and engineering societies to discuss the talent pool for science and engineering—its components, quality, and access. The proceedings of that meeting, "The Science and Engineering Talent Pool," have just been released.

Calling attention to the importance of the issues, Bill G. Aldrich, vice president of the Scientific Manpower Commission and executive director of the National Science Teachers Association, said, "Not for years has such a collection of data been brought together on the pipeline issue. The 18- to 24-year-old population will drop from 29.4 million in 1981 to below 26 million in 1988, and this drop coincides with a period of increasing demand for well educated specialists."

Other speakers included Charles Falk from the National Science Foundation who presented selected information from the data on scientists and engineers that is collected by the Foundation and Sue Berryman of the Rand Corporation, author of "Who Will Do Science?," who

provided information on the participation of women and minorities in science and engineering.

Scientific Manpower Commission director Betty Vetter traced the talent pool from seventh grade through Ph.D., while Beverly Porter of the American Institute of Physics examined the outlook for physicists and Anthony Carnevale, a consulting economist, outlined the needs for and methods of providing continuing education for scientists and engineers. Alan Fechter of the National Research Council discussed the importance of alternate sources of supply other than the addition of new graduates.

Copies of "The Science and Engineering Talent Pool," proceedings of the joint meeting, are available for \$10 prepaid from the Scientific Manpower Commission, 1776 Massachusetts Avenue, NW, Washington, D.C. 20036.

## New York Science Seminar Series for Teachers Begins This Month

The Science Seminar for Teachers is a new series designed to give secondary school science teachers the opportunity to meet with leading scientists and mathematicians and to learn more about such topics as stress and health, the importance of chaos, genetic engineering, interactive computer graphics and the fourth dimension, and stellar evolution.

The Science Seminar for Teachers is being offered only to secondary school science teachers in New York City. The seminars are sponsored by the AAAS in conjunction with the New York Academy of Sciences. Eight seminars, based on popular symposia from the 1984 AAAS Annual Meeting, are scheduled during October, November, and December.

For further information, contact the Office of Science and Technology Education at 1776 Massachusetts Avenue, NW, Washington, D.C. 20036, or call 202-467-4993.

## AAAS Travelers

AAAS has been invited to send a representative to the 34th annual convention of the Venezuelan Association for the Advancement of Science (ASOVAC) to be held in Cumana (Sucre State) 19 to 24 November 1984. The conven-

tion, comprised of symposia, lectures, workshops, and assemblies of disciplinary societies, will present some 1700 papers, including poster sessions. In collaborations with the University of Oriente, the meeting also will sponsor social and cultural events.

AAAS members who plan to be in the area at that time or who know of colleagues on sabbatical in the region who might be able to attend should telephone James W. Rowe, AAAS Office of International Science at 202-467-5230. No travel funds are available; however, partial support (per diem only) will be provided. Knowledge of Spanish is desirable.

## Obituaries

**Michael Alberti** of Hyltebruck, Sweden, member since 1983, 12 July 1984.

**Errett Cyril Albritton** of Pleasant Hill, California, member of Section G since 1934, 2 May 1984.

**K. Baburao** of the Northwest Institute for Medical Research, member of Section C since 1961, 5 May 1984.

**Anna D. Bergner** of Baltimore, Maryland, member of Section F since 1928, 30 July 1984.

**Stephen R. Boyle** of Santa Barbara, California, member since 1973, 25 June 1984.

**Coleman Citret** of San Francisco, California, member of Section N since 1980, 16 June 1984.

**Truman B. Clark**, Research Center, U.S. Department of Agriculture, member since 1982, 18 August 1984.

**Julius H. Comroe, Jr.**, director emeritus, Cardiovascular Research Institute, University of California, San Francisco, member of Section N since 1948, 31 July 1984.

**Hilary J. Deason**, retired staff member of the AAAS, editor of *Science Books Quarterly*, member of Section L since 1930, 25 August 1984.

**Elaine G. Diacumakos**, head, Rockefeller University Laboratory of Cytobiology, member of Section G since 1960, 11 June 1984.

**Edwin G. Ebbighausen** of Eugene, Oregon, member of Section D since 1957, 17 July 1984.

**Anna Fisher** of Alva, Oklahoma, member of Section G since 1927, 11 May 1984.

**Edmund F. Foley** of Crystal Lake, Illinois, member of Section N since 1971, 4 May 1984.

**Joseph Lee Fowler** of Oak Ridge, Ten-

*(Continued on page 570)*

## Federal Biotechnology Funding Sources

Oskar R. Zaborsky, Ph.D.  
Brenda K. Young

Vital information on U.S. government programs for:

- Research Scientists and Engineers
- R&D Administrators
- High-Tech Small Businessmen

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OMEC Publishing Company  
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# SCIENCE

## Posters

The following posters of *Science* covers are available:

- 30 March 1979, Tropical flowering tree;
- 23 February 1983, Landsat photo of Detroit, Michigan;
- 29 July 1983, Cheetah;
- 2 December 1983, Snowshoe hare;
- 23 December 1983, Cathedral window/DNA molecule.

Combination of space covers in scroll format: 1 June 1979, 23 November 1979, 10 April 1981.

Price is \$5 each (prepaid).

Write to AAAS, Department POST,  
1515 Massachusetts Avenue, NW,  
Washington, D.C. 20005.

## AAAS NEWS

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nessee, member of Section A since 1960, 3 June 1984.

**Aziz H. Hamdy**, senior scientist, Upjohn Company, member of Section N since 1965, 25 May 1984.

**E. Garland Herndon, Jr.**, of Atlanta, Georgia, member of Section N since 1983, 19 July 1984.

**Francis A. Johnston** of Scottsdale, Arizona, member since 1936, 28 May 1984.

**Stanley P. Kramer**, founder, Deerfield Scientific, Inc., member of Section G since 1958, 17 April 1984.

**Rainer H. Lange**, Institute of Anatomy and Cytobiology, Justus Liebig-University, member since 1978, 4 August 1984.

**George M. Low**, president, Rensselaer Polytechnic Institute, member of Section Q since 1981, 17 July 1984.

**Leonard E. Miller** of Chagrin Falls, Ohio, member of Section C since 1945, 4 July 1984.

**Allan O. Mogensen** of Bridgewater, New Jersey, member of Section M since 1979, 20 May 1984.

**Walter Ralston** of Los Osos, California, member of Section N since 1941, 25 July 1984.

**L. R., Richardson** of Florence, Kentucky, member of Section G since 1943, 2 May 1984.

**Lee Albert Reith, Jr.**, of Goshen, Indiana, member of Section M since 1975, 5 June 1984.

**Ernest F. Russell** of Santa Barbara, California, member of Section N since 1938, 26 June 1984.

**John R. Seal**, former deputy director of the National Institute of Allergy and Infectious Diseases, member of Section N since 1951, 11 August 1984.

**Reidar Sognnaes**, founding dean, Dental School, University of Los Angeles, member of Section R since 1948, 21 September.

**James B. Speer** of Denver, Colorado, member of Section M since 1976, 28 June 1984.

**Stanislaw M. Ulam** of Santa Fe, New Mexico, member of Section A since 1966, 13 May 1984.

**H. VanderVeen** of Ojai, California, member of Section B since 1963, 26 July 1984.

**Grant T. Wernimont** of West Lafayette, Indiana, member since 1979, 12 May 1984.

**Helen P. Withers**, U.S. Geological Survey, member of Section E since 1977, 25 June 1984.

**Anthony J. Zelnis**, of Chicago, Illinois, member of Section G since 1978, 18 July 1984.

## BOOKS RECEIVED

(Continued from page 534)

**The Molecular Biology of Adenoviruses 2.** 30 Years of Adenovirus Research 1953-1983. Walter Doerfler, Ed. Springer-Verlag, New York, 1984. viii, 265 pp., illus. \$49. Current Topics in Microbiology and Immunology, 110.

**Molecular Diffusion and Spectra.** William Coffey, Myron Evans, and Paolo Grigolini. Wiley-Interscience, New York, 1984. xvi, 378 pp., illus. \$49.95.

**The Mollusca.** Karl M. Wilbur, Ed. Vol. 6, Ecology. W. D. Russell-Hunter, Ed. Academic Press, Orlando, Fla., 1983. xx, 695 pp., illus. \$69.

**Mommy, I Can't Sit Still!** Coping with Hyperactive and Aggressive Children. K. Daniel O'Leary. New Horizon Press, New York, 1984. vi, 132 pp., illus. \$12.95.

**Monoclonal Antibodies.** Karl Sikora and Howard M. Smedley, with Paul Finan. Blackwell Scientific, Palo Alto, Calif., 1984. xii, 132 pp., illus., + plates. Paper, \$13.

**Monoclonal Antibodies and Functional Cell Lines.** Progress and Applications. Roger H. Kennett, Kathleen B. Bechtol, and Thomas J. McKearn, Eds. Plenum, New York, 1984. xviii, 426 pp., illus. \$49.50.

**Mould's Medical Anecdotes.** Hilger, Bristol, 1984 (U.S. distributor, Heyden, Philadelphia). xii, 148 pp., illus. \$16.

**The Mouse in Biomedical Research.** Vol. 3, Normative Biology, Immunology, and Husbandry. Henry L. Foster, J. David Small, and James G. Fox, Eds. Academic Press, Orlando, Fla., 1983. xvi, 447 pp., illus. \$83. American College of Laboratory Animal Medicine Series.

**Multiphoton Ionization of Atoms.** S. L. Chin and P. Lambropoulos, Eds. Academic Press, Orlando, Fla., 1984. xiv, 272 pp., illus. \$59.50.

**Multiphoton Spectroscopy of Molecules.** S. H. Lin et al. Academic Press, Orlando, Fla., 1984. xii, 260 pp., illus. \$59. Quantum Electronics.

**Oligodendroglia.** William T. Norton, Ed. Plenum, New York, 1984. xviii, 351 pp., illus. \$49.50. Advances in Neurochemistry, vol. 5.

**Oncodevelopmental Markers.** Biologic, Diagnostic, and Monitoring Aspects. William H. Fishman, Ed. Academic Press, Orlando, Fla., 1983. xx, 432 pp., illus. \$64.50.

**Pathology of Skeletal Muscle.** Stirling Carpenter and George Karpati. Churchill Livingstone, New York, 1984. xvi, 754 pp., illus. \$98.

**Perspectives in Nuclear Physics at Intermediate Energies.** S. Boffi, C. Ciofi degli Atti, and M. M. Giannini, Eds. World Scientific, Singapore, 1984 (U.S. distributor, Heyden, Philadelphia). xii, 547 pp., illus. \$60. From a workshop, Trieste, Italy, Oct. 1983.

**Photosynthesis.** Christine H. Foyer. Wiley-Interscience, New York, 1984. xx, 219 pp., illus. \$29.95. Cell Biology, vol. 1.

**The Physical Chemistry of Membranes.** Michael E. Starzak. Academic Press, Orlando, Fla., 1984. xii, 334 pp., illus. \$42.

**Physical Properties of Polymers.** James E. Mark et al. American Chemical Society, Washington, D.C., 1984. x, 246 pp., illus. \$44.95.

**Physics of Gravitating Systems.** A. M. Fridman and V. L. Polyachenko. Springer-Verlag, New York, 1984. Two volumes. Vol. 1, Equilibrium and Stability. xviii, 468 pp., illus. \$84. Vol. 2, Nonlinear Collective Processes: Nonlinear Waves, Solitons, Collisionless Shocks, Turbulence, Astrophysical Applications. xii, 358 pp., illus. \$57. Translated from the Russian edition (Moscow, 1976) by A. B. Aries and Igor N. Poliakov.

**Plant and Insect Nematodes.** William R. Nickle, Ed. Dekker, New York, 1984. xvi, 925 pp., illus. \$145.

**Pleasure and Frustration.** A Resynthesis of Clinical and Theoretical Psychoanalysis. Leon Wallace. International Universities Press, New York, 1984. xiv, 193 pp. \$20.

**Progress in Experimental Personality Research.** Brendan A. Maher and Winifred B. Maher, Eds. Academic Press, Orlando, Fla., 1983 and 1984. Vol. 12, Psychopathology. xviii, 217 pp., \$32. Vol. 13, Normal Personality Processes. xii, 374 pp. \$45.

**Progress in Medical Virology.** Vol. 30. J. L. Melnick and K. Hummeler, Eds. Karger, Basel, 1984. viii, 212 pp., illus. \$93.

**Progress in Nucleic Acid Research and Molecular Biology.** Vol. 29, Genetic Mechanisms in Carcinogenesis. Waldo E. Cohn, Ed. Academic Press, Orlando, Fla., 1983. xxvi, 302 pp., illus. \$39.50. From a conference, Gatlinburg, Tenn., April 1982.

**Progress in Nucleic Acid Research and Molecular Biology.** Vol. 30. Waldo E. Cohn and Kivie Moldave, Eds. Academic Press, Orlando, Fla., 1983. xviii, 283 pp., illus. \$36.