

NEWSLETTER



VOLUME 21 NUMBER 3
JULY 1992

HISTORY OF SCIENCE SOCIETY

NEH DIVISION OF EDUCATION PROGRAMS

A Major Resource for History of Science

The Division of Education Programs of the National Endowment for the Humanities and its constituent programs sponsor several initiatives likely to be of special interest to historians of science.

For example, the **Higher Education Program** supports a variety of faculty study and related curriculum development projects on the national, regional, and institutional levels. Each year, the program funds about 20 **Summer Institutes** to enable faculty from colleges and universities throughout the nation to study important humanities topics and texts under the guidance of leading scholars. One such institute was "Science As Cultural Practice" held at Wesleyan University in the summer of 1991. The program also encourages proposals for institutes that appeal to a broader faculty audience. There is a particular need for summer institutes to assist faculty not trained in the history of science to integrate classics of the scientific literature into intellectual history and humanities survey sources, and the program would warmly welcome proposals for such institutes. At times, the Higher Education Program also supports conferences, consortia, and institutional mentorship programs that address national or regional issues in the undergraduate curriculum.

At the institutional level, the Higher Education Program awards support for projects specific to a particular college or university. The program especially encourages two kinds of efforts: those that establish **Core Curriculum Programs** in which undergraduates study, in ordered sequence, materials central to a liberal education; and those that improve **Teacher Preparation in the Humanities**. The program is particularly interested in supporting humanities-based undergraduate programs for elementary school teachers. Because they typically teach all subjects, elementary school teachers are well served by undergraduate preparation that includes some context for handling topics in science and mathematics. The history of science could be an important part of such preparation.

In recent years, the Endowment has provided extensive support to colleges and universities undertaking to think through and provide a coherent core of common learning for their undergraduates. Between 1988 and 1991, the Higher Education Program funded 56 core curriculum projects. As a further step to encourage intellectual coherence in the undergraduate curriculum, the Endowment—through the Higher Education Program, working with the National Science Foundation

HSS EXECUTIVE COMMITTEE

PRESIDENT
SALLY GREGORY KOHLSTEDT,
University of Minnesota

VICE-PRESIDENT
DAVID C. LINDBERG,
University of Wisconsin-Madison

EXECUTIVE SECRETARY
MICHAEL M. SOKAL,
Worcester Polytechnic Institute

TREASURER
LESTER D. STEPHENS,
University of Georgia

EDITOR
RONALD L. NUMBERS,
University of Wisconsin-Madison

The *History of Science Society Newsletter* is published in January, April, July, and October. Issues are sent to all individual members of the Society; those who reside outside of North America pay an additional \$5 yearly to cover a portion of first-class airmail charges. The *Newsletter* is available to nonmembers and institutions for \$25 a year.

The *Newsletter* is edited by Michael M. Sokal and desktop-published at the Office of the Executive Secretary by Production Manager Gina M. Patterson on an Apple Macintosh-based system using Microsoft Word and Aldus PageMaker.

Send items for the *Newsletter* (preferably on disk, in MS-DOS or Macintosh format) to the Office of the Executive Secretary, History of Science Society, 35 Dean Street, Worcester, MA 01609 USA; telephone (508) 831-5712; telefax (508) 831-5800; e-mail (via Internet) MSokal@WPI.WPI.Edu. The deadline for receipt of news is the first of the month prior to publication, although urgent announcements may be accepted until the fifth of the month. Articles and other long pieces should be submitted at least two weeks before the first.

INSIDE THIS ISSUE:

1992 Election	7
National Science Foundation News	9
Annual Meeting Program	11
Meeting Preregistration Forms	19 & 21



Victoria College, site of this month's
BSHS/CSHPS/HSS meeting, see pp. 7-8

(continued on page 29)



Rima D. Apple



Jed Z. Buchwald



Peter L. Galison



Elizabeth Garber

THE 1992 HSS ELECTION CANDIDATES' BIOGRAPHIES

FOR COUNCIL

Rima D. Apple

Associate Professor of Consumer Science, School of Family Resources and Consumer Sciences, Univ. of Wisconsin-Madison. Ph.D., Univ. of Wisconsin, 1981. **Specialties:** history of American science, medicine and pharmacy; history of women and science; history of women and health. **Professional activities:** HSS—Assistant/Associate Editor, *Isis*, 1988-92; Committee on Women, co-chair, 1987-89; History of Women in Science Prize Committee, 1990-92, chair, 1992. Forum for the History of Science in America—Coordinating Committee, 1989-92, chair, 1992-93. Berkshire Conference of Women Historians—Program Committee, 1986-87; Article Prize Committee, 1988-90. American Association for the History of Medicine—Osler Medal Committee, 1983-84; Program Committee, 1984-85; Shryock Medal Committee, 1989-90. **Selected publications:** *Mothers and Medicine: A Social History of Infant Feeding, 1890-1950* (Wisconsin, 1987); "'They Need It Now': Advertising and Vitamins, 1925-1940," *Journal of Popular Culture*, 1988, 22 (3): 65-83; "Patenting University Research: Harry Steenbock and the Wisconsin Alumni Research Foundation," *Isis*, 1989, 80: 375-394; editor, *Women, Health and Medicine in America: A Historical Handbook* (Garland, 1990; Rutgers, 1992). **Current projects:** A study of the commercial development of vitamins in the United States. The history of scientific motherhood in America.

Jed Z. Buchwald

Former Director, Institute for the History and Philosophy of Science and Technology, Univ. of Toronto. Dibner Professor of the History of Science, MIT, and founding Director, Dibner Institute for the History of Science and Technology at MIT. **Specialties:** 18th, 19th and early 20th century physics. **Professional activities:** HSS—*Isis* Advisory Editor, 1990-. *Archive for History of Exact Sciences*—Editorial Board, 1989-. *Perspectives on Science*—Editorial Board, 1991-. *Science Networks*—Editorial Board, 1989-. *Studies and Sources in the History of Mathematics and Physical Sciences*—Editorial Board, 1989-. Killam Fellow, 1990-92. Académie International d'Histoire des Sciences—Membre correspondant. **Selected publications:** *The Rise of the Wave Theory of Light* (Chicago, 1989); "The Background to Heinrich Hertz's Experiments in Electrodynamics," in *Nature, Experiment, and the Sciences*, eds. T. H. Levere and W. R. Shea (Kluwer, 1990); *From Maxwell to Microphysics* (Chicago, 1985). **Current projects:** *The Creation of Scientific Effects: Heinrich Hertz and Electric Waves* (just completed). A study of the reproduction of Hertzian intellectual and material devices, 1890 to ca. 1910.

Peter L. Galison

Professor of the History of Science, Professor of Physics, Harvard Univ. Ph.D. Harvard Univ., 1983. **Specialties:** 19th and 20th century physical sciences, especially history and philosophy of instrumentation and experimentation; historical and philosophical development of particle physics; interaction of physics

and the military. **Professional activities:** HSS—Program co-chair, 1990 annual meeting. 1989 Workshop on Big Science—co-organizer. 1990 Workshop on the Disunity of Science—co-organizer. West Coast History of Science Society—Secretary. **Selected publications:** *How Experiments End* (Chicago, 1987); co-editor, *Big Science: The Growth of Large-Scale Research* (Stanford, 1992); co-editor, *The Disunity of Science* (Stanford, in press); *Image and Logic: The Material Culture of Modern Physics* (forthcoming); "Aufbau/Bauhaus: Logical Positivism and Architectural Modernism," *Critical Inquiry*, 1990, 16: 709-752; "Minkowski's Space-Time: From Visual Thinking to the Absolute World," *Historical Studies in the Physical Sciences*, 1979, 10: 85-121; "How the First Neutral Current Experiments Ended," *Reviews of Modern Physics*, 1983, 55: 477-509; "Descartes' Comparisons," *Isis*, 1984, 75: 311-326; "Bubble Chambers and the Experimental Workplace," in *Observation, Experiment and Hypothesis in Modern Physical Science*, ed. Peter Achinstein and Owen Hannaway (MIT, 1985). **Current projects:** A book on the relationship between logical positivism and the art and architecture of between-the-wars modernism (under way). A book on the relationship between theoretical particle physics and practices from adjacent fields and technologies (just begun).

Elizabeth Garber

Associate Professor, Department of History, State Univ. of New York at Stony Brook. Ph.D., Case Institute of Technology, 1967. **Specialties:** history of physics; historiography, especially problem of integrating history of science into history. **Professional activities:** HSS—Dibner Visiting Historian of Science, 1990-91. Division of the



Caroline Hannaway

History of Physics, American Physical Society—Member, Executive Committee, and Associate Editor of its Newsletter. **Selected publications:** editor, *Beyond History of Science: Essays in Honor of Robert E. Schofield* (Lehigh, 1990); "Simeon-Denis Poisson; Mathematics, versus Physics in Early Nineteenth-Century France," *Beyond History of Science*, "History of Science as Social History," in *Advances in Psychoanalytic Sociology*, ed. Fred Weinstein (1987); co-editor, *Maxwell on Saturn's Rings* (MIT, 1983); co-editor, *Maxwell on Molecules and Gases* (MIT, 1986); co-editor, *Maxwell on Thermodynamics and Statistical Mechanics* (in press). **Current project:** "Mathematics as Language"—the transformation of mathematics into the language of physics, and as a part of the genesis of theoretical physics. A study of the place of science in the political culture of the eighteenth century. A textbook on the social history of science.

Caroline Hannaway

Director, Francis C. Wood Institute for the History of Medicine, College of Pennsylvania of Philadelphia. Ph.D., The Johns Hopkins Univ., 1974. **Specialties:** history of medicine and public health, especially in 18th- and 19th-century France. **Professional activities:** *Bulletin of the History of Medicine*—Editor, 1983-90; American Association for the History of Medicine—Council, 1980-82; William H. Welch Medal Committee, 1983-84; Fielding H. Garrison Lecture Committee, 1984-85; Nominating Committee, chair, 1988-90. *Journal of the History of Medicine*—Editorial Board, 1992-. **Selected publications:** "Caring for the Constitution: Medical Planning in Revolutionary France," *Transactions & Studies of the College of Physicians of Philadelphia*, 1992, 14: 147-166;



Seymour H. Mauskopf

"Historiographical Trends in the History of Medicine: An Editor's Perspective," in *New Perspectives in the History of Medicine*, ed. H. Attwood et al. (Sydney, 1990); "Medicine and Religion in Pre-Revolutionary France," *Social History of Medicine*, 1989, 2: 315-320; "From Private Hygiene to Public Health: A Transformation in Western Medicine in the Eighteenth and Nineteenth Centuries," in *Public Health: Fifth International Symposium of the Comparative History of Medicine—East and West*, ed. Teizo Ogawa (Tokyo, 1981). **Current projects:** The reinterpretation of the significance of the Paris clinical school of the nineteenth century in the development of scientific medicine (with Ann La Berge). Editor, *History of Medicine: An Encyclopedia* (Garland).

Seymour H. Mauskopf

Professor of History, Duke University. Ph.D. Princeton Univ., 1966. **Specialties:** history of physical and chemical sciences; history of behavioral sciences; marginal sciences; history of science-technology relationship. **Professional activities:** HSS—Treasurer and member, Executive Committee, 1980-84; Pfizer Prize Committee, 1989-91, chair, 1990-91; Beckman Center for the History of Chemistry and Hebrew University—Edelstein International Fellow, 1988-89. **Selected publications:** "Molecular Geometry in Nineteenth-Century French Science: The Persistence of a Tradition," in *Scrutinizing Science: Empirical Studies of Scientific Change*, ed. A. Donovan et al., (Kluwer, 1988); "The History of the American Society for Psychical Research: An Interpretation," *Journal of the American Society for Psychical Research*, 1989, 83: 7-29; "Marginal Science," in *Companion to the History of Modern Science*, ed. R. C. Olby et al., (Routledge, 1990). "Chemistry and Cannon: J.-L. Proust and



Robin E. Rider

Gunpowder Analysis," *Technology and Culture*, 1990, 31: 398-426; editor, *Chemical Sciences in the Modern World* (BCHOC, in press); "Crystals and Compounds: Molecular Structure and Composition in Nineteenth-Century French Science," *Transactions of the American Philosophical Society*, 1976; editor, *The Reception of Unconventional Science by the Scientific Community*, (AAAS, 1979); co-author, *The Elusive Science: Origins of Experimental Psychical Research, 1915-1940* (Johns Hopkins, 1980). **Current project:** "The Scientific Study of Explosives and Munitions, 1775-1900."

Robin E. Rider

Head, History of Science and Technology Program, Bancroft Library, Univ. of California, Berkeley. Ph.D., University of California, 1980. **Specialties:** history of the printing of science; history of mathematical sciences; 18th-century science. **Professional activities:** HSS—Committee on Research and the Profession, 1989-91; Subcommittee on Minority Affairs (now Subcommittee on Diversity), 1989-, chair 1990-. International Congress for History of Science (Berkeley, 1985)—Organizing Committee and National Program Committee; West Coast History of Science Society—Officer, 1981-83, 1987-91. **Selected publications:** "Early Modern Mathematics in Print," "Operations Research and Game Theory: Early Connections," "Capsule History of Operations Research" (in press); "Saving the Records of Big Science," *American Libraries*, 1991, 22: 166-168; co-editor, *The Quantifying Spirit of the 18th Century* (California, 1990); "Measure of Ideas, Rule of Language: Mathematics and Language in the 18th Century" and "Bibliographical Afterword," in *The Quantifying Spirit*; introductory essay on arithmetical instruments in the 17th and



Robert W. Seidel



Jeffrey K. Stine



Jeffrey L. Sturchio

18th centuries, for John Napier, *Rabdology*, trans. W. F. Richardson (MIT, 1990); "An Opportune Time: Griffith C. Evans and Mathematics at Berkeley," in *A Century of Mathematics in America*, part II, ed. Peter Duren (American Mathematical Society, 1989). **Current project:** A book (with Henry Lowood) on the printing and publishing of science in early modern Europe.

Robert W. Seidel

Senior staff member, Center for National Security Studies at Los Alamos National Laboratory. Ph.D., University of California, 1978. **Specialties:** history of modern science; history of national laboratories; history of military R&D. **Professional activities:** HSS—Watson Davis Prize Committee, 1990-92, chair, 1992; Committee on Independent Scholars, 1990-92; Local Arrangements chair, 1993 annual meeting. Bradbury Science Museum, Los Alamos National Laboratory—Chairman of Policy Advisory Board. New Mexico Space Center Commission—Vice-Chairman. **Selected publications:** co-author, *Lawrence and His Laboratory*, volume 1 of *A History of the Lawrence Berkeley Laboratory* (California, 1990); "Clio and the Complex: Recent Historiography of Science and National Security," *Proceedings of the American Philosophical Society*, 1990, 134: 420-441; "Origins of the Lawrence Berkeley Laboratory," in *Big Science: The Growth of Large-Scale Research*, ed. Peter Galison and Bruce Hevley (Stanford, 1992); "Books on the Bomb," *Isis*, 1990, 81: 519-537. **Current projects:** 50th anniversary history of Los Alamos National Laboratory. Volume II of *A History of the Lawrence Berkeley Laboratory*. A history of technological innovation in nuclear weapons design.

Jeffrey K. Stine

Curator of Engineering, National Museum of American History, Smithsonian Institution. Ph.D., Univ. of California, Santa Barbara, 1984. **Specialties:** history of engineering; environmental history; history of science and technology policy. **Selected publications:** co-editor, *Technology and Choice: Readings from Technology and Culture* (Chicago, 1991) *A History of Science and Policy in the United States, 1940-1985* (U.S. House of Representatives, 1986); "Scientific Instrumentation as an Element of U.S. Science Policy: National Science Foundation Support of Chemistry Instrumentation," in *Invisible Connections: Instruments, Institutions, and Science*, ed. Robert Bud and Susan Cozzens (1992); "Environmental Politics in the American South: The Fight over the Tennessee-Tombigbee Waterway," *Environmental History Review*, 1991, 15: 1-24. **Current projects:** *Engineering, Politics, and the Environment: The Fight over the Tennessee-Tombigbee Waterway* (Akron, forthcoming). "Technology and the Environment," a special issue of *Technology and Culture* guest co-edited with Joel Tarr.

Jeffrey L. Sturchio

Corporate Archivist & Manager, Public Affairs Information Center, Merck & Co., Inc. Ph.D., Univ. of Pennsylvania, 1981. **Specialties:** history of chemistry and chemical technology; history of industrial research and development. **Professional activities:** HSS—Council, 1985-87; Associate Editor, *Isis*, 1986-88; Committee on Research and the Profession, 1985-87, chair, 1986-87; Committee on Independent Scholars, 1986-87; Ad Hoc Committee on Interest Groups, chair, 1986; Committee on Thematic Meetings, 1986; Schuman Prize Committee, 1982. Society for the History of

Technology—Advisory Council, 1987-91; Secretary, Pelicans, 1979-89; Program Committee, 1983-85, chair, 1984; Documents Committee, 1982-84. Division of the History of Chemistry, American Chemical Society—Chair-Elect, 1992; Program Chair, 1989-91; Executive Committee, since 1986. **Editorial activities:** Editor, American Chemical Society—Chemical Heritage Foundation History of Modern Chemical Sciences Series, 1991-; Associate Editor, *American National Biography*, 1989-; Editorial Board, *Bulletin for the History of Chemistry*, 1989-; Editorial Advisory Board, Chemical Sciences and Society Series, University of Pennsylvania Press, 1989-; Contributing Editor, *Science, Technology & Human Values*, 1988-90; Founding Editor, *Beckman Center News* (formerly *CHOC News*), 1982-88. **Selected publications:** editor, *Values & Visions: A Merck Century* (Merck, 1991); co-author, *Chemistry in America, 1876-1976: Historical Indicators* (Reidel, 1985); editor, *Corporate History and the Chemical Industries* (CHOC, 1985); co-author, "Chemistry & Public Policy," *Chemical & Engineering News*, 9 March 1987, 65: 20-29; co-author, "The Education of an Entrepreneur: The Early Career of Arnold O. Beckman," in *The Beckman Symposium on Biomedical Instrumentation*, ed. C. L. Moberg (New York, 1986); "Chemistry and Corporate Strategy at Du Pont," *Research Management*, 4 July 1980, 27: 27-32. **Current projects:** Articles on technology transfer and the early history of Merck manufacturing, 1891-1918, and the uses of oral history in writing the history of modern science, technology, and business.

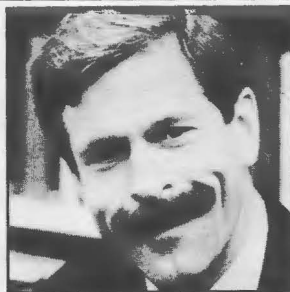


Toby A. Appel

FOR NOMINATING COMMITTEE, FROM COUNCIL

Toby A. Appel

Visiting Associate Professor, Program in History of Science, Department of History, Univ. of Florida. Ph.D., Princeton Univ., 1976. **Specialties:** history of biology and medicine in America; comparative anatomy and evolutionary biology in France and America; scientific institutions; women in science. **Professional activities:** HSS—Council, 1992-; Washington Representative, 1989-90; Committee on Research and the Profession, 1989-90; Coordinator of employment survey, Committee on Women, 1981-83; Schuman Prize Committee, 1980-81. American Association for the History of Medicine—Program Committee, 1990-91; Garrison Lecture Committee, 1983-84, 1989-90. Forum for the History of Science in America—Coordinating Committee, 1985-89. **Selected publications:** *The Cuvier-Geoffroy Debate: French Biology in the Decades Before Darwin* (Oxford, 1987); co-editor, *History of the American Physiological Society: The First Century, 1887-1987* (APS, 1987); "A Scientific Career in the Age of Character: Jeffries Wyman and Natural History at Harvard," in *Science at Harvard University: Historical Perspectives*, ed. C. A. Elliott and M. W. Rossiter (Lehigh, 1992); "Organizing Biology: The American Society of Naturalists and Its 'Affiliated Societies,' 1883-1923," in *The American Development of Biology*, ed. R. Rainger et al. (Pennsylvania, 1988); "Jeffries Wyman, Philosophical Anatomy and the Scientific Reception of Darwin in America," *Journal of the History of Biology*, 1988, 21: 69-94; "Biological and Medical Societies and the Founding of the American Physiological Society," in *Physiology in the*



Keith R. Benson

American Context, 1850-1940, ed. G. L. Geison (APS, 1987). **Current project:** "The National Science Foundation and postwar federal patronage of biology."

Keith R. Benson

Associate Professor of Medical History and Ethics, Univ. of Washington. Ph.D., Oregon State Univ., 1979. **Specialties:** history of American science; 19th-century American biology; history of marine biology. **Professional activities:** HSS—Council, 1992-; Committee on Research and the Profession, chair, 1991-. Local Arrangements chair, 1990 annual meeting; Committee on Meetings and Programs, 1989-91. Forum for the History of Science in America—Coordinating Committee, 1987-90. Columbia History of Science Group—founder and director, 1983-. American Society of Zoologists—chair, Division of the History and Philosophy of Biology, 1987-89. *Journal of the History of Biology*—Bookshelf Committee, 1984-. *History and Philosophy of the Life Sciences*—Editorial Board, 1989-. **Selected publications:** co-editor, *The American Development of Biology* (Pennsylvania, 1988) and *The Expansion of American Biology* (Rutgers, 1991); "From Museum Research to Laboratory Research: The Transformation of Natural History into Academic Biology," in *The American Development of Biology*; "Biology's Phoenix: Historical Perspectives on the Importance of the Organism," *American Zoologist*, 1989, 29: 1067-1074; "Review Paper: The Naples Stazione Zoologica and Its Impact on the Emergence of American Marine Biology," *Journal of the History of Biology*, 1988, 21: 331-341; "Laboratories on the New England Shore: The Somewhat Different Direction of American Marine Biology," *New England Quarterly*, 1988, 56: 53-78; "The *Journal of Morphology*



Gerald Holton

as Window and Mirror: Reflections and Glimpses on the Birth of American Biology," *Journal of Morphology*, 1987, 194: 221-234. **Current project:** A book on the role of marine biology stations (MBL, Scripps, Hopkins Marine Station, Friday Harbor Laboratories) on the growth of American biology from 1880-1915.

Gerald Holton

Mallinckrodt Professor of Physics and Professor of the History of Science, Harvard Univ. Ph.D., Harvard Univ., 1948. **Specialties:** history of modern physical sciences; science, technology and society; history of science in education. **Professional activities:** HSS—President, 1982-84; Dibner Visiting Historian of Science, 1985-87; Development Committee. Académie Internationale d'Histoire des Sciences—Vice President, 1981-89. Division of the History of Physics, American Physical Society—chair, 1992. U.S. National Committee, International Union for the History and Philosophy of Science, 1982-89. Library of Congress—Council of Scholars, 1980-. *Daedalus*—founding editor. *Science, Technology and Human Values*—founding editor. *Collected Papers of Albert Einstein*—Editorial Committee. *Project Access*—Principal Investigator. **Selected publications:** *Thematic Origins of Scientific Thought: Kepler to Einstein* (Harvard, 1973, 1988); *The Scientific Imagination: Case Studies* (Cambridge, 1978); *The Advancement of Science, and its Burdens. The Jefferson Lecture and Other Essays* (Cambridge, 1986); co-editor, *Albert Einstein, Historical and Cultural Perspectives* (Princeton, 1982). "Ernst Mach and the Fortunes of Positivism in America," *Isis*, 1992, 83: 27-60; "How to Think about the 'Anti-Science' Phenomenon," *Public Understanding of Science*, 1992, 1:103-



Theodore M. Porter



Richard S. Westfall



Joella G. Yoder



Loren Graham

128. **Current projects:** *On Understanding Science and Anti-Science* (Harvard). A book, resulting from *Project Access*, on the career obstacles of women in research science careers. A book on the changes in the culture of science in the 20th century.

Theodore M. Porter

Associate Professor, Department of History, Univ. of California, Los Angeles. Ph.D., Princeton Univ., 1981. **Specialties:** history of statistics and quantification. **Professional activities:** HSS—Council, 1991-; Committee on Meetings and Programs, 1991-93; Program co-chair, 1992 annual meeting. West Coast History of Science Society—President, 1992-93. **Selected publications:** *The Rise of Statistical Thinking, 1820-1900* (Princeton, 1986); coauthor, *The Empire of Chance: How Probability Changed Science and Everyday Life* (Cambridge, 1989); "Objectivity and Authority: How French Engineers Reduced Public Utility to Numbers," *Poetics Today*, 1991, 12:245-265; "Objectivity as Standardization: The Rhetoric of Impersonality in Measurement, Statistics, and Cost-Benefit Analysis," *Annals of Scholarship*, forthcoming; "Quantification and the Accounting Ideal in Science," *Social Studies of Science*, forthcoming. **Current project:** A book on quantification and objectivity in science and public life.

Richard S. Westfall

Professor of the History of Science (Emeritus), Indiana Univ. Ph.D., Yale Univ., 1955. **Specialties:** 17th-century science. **Professional activities:** HSS—President, 1977-78. Académie Internationale d'Histoire des Sciences—Membre effectif. **Selected publications:** *Science and Religion in Seventeenth Century England* (Yale, 1958); *Force in*

Newton's Physics: The Science of Dynamics in the Seventeenth Century (MacDonald, 1971); *Never at Rest: A Biography of Isaac Newton* (Cambridge, 1980); *Essays on the Trial of Galileo* (Vatican Observatory, 1989). **Current project:** A social history of the scientific community of the 16th and 17th centuries.

Joella G. Yoder

Independent Scholar. Ph.D. Univ. of Wisconsin, 1985. **Specialties:** 17th century science and mathematics. **Professional activities:** HSS—Council, 1992-; Advisory Editor, *Isis*, 1991-93; National Committee, Visiting Historians of Science Program, 1986-88; Committee on Independent Scholars, 1987-89. Columbia History of Science Group—President, 1984-85; administered the HSS-funded Columbia Lectureship for Independent Scholars, 1988-90. *Tractrix*—International Council. *Historia Mathematica*—Associate Editor. **Selected publications:** *Unrolling Time: Christiaan Huygens and the Mathematization of Nature* (Cambridge, 1988); "Christiaan Huygens' Great Treasure," *Tractrix*, 1991, 3: 1-13. **Current project:** A catalogue of Huygens' manuscripts.

FOR NOMINATING COMMITTEE, AT LARGE

Loren Graham

Professor of the History of Science, Massachusetts Institute of Technology. Visiting Professor, History of Science, Harvard Univ. Ph.D., Columbia Univ., 1964. **Specialties:** history of science in Russia and the Soviet Union; social relations of science. **Professional activities:** HSS—Council, 1973-75; Nominating Committee, 1975, 1981;

Distinguished Lecturer, 1991; Representative to AAAS Section L, 1990-92; Dibner Visiting Historian of Science, 1985-87; HSS/SHOT Joint Planning Committee, 1989-91; Advisory Editor, *Isis*, 1976-80. *Science, Technology and Human Values*—Editorial Board, 1979-88. *Social Studies of Science*—Advisory Editor, 1980-. *Zeitschrift für Wissenschaftsforschung*—Advisory Editor, 1983-. Office of Science and Society, National Science Foundation—Advisory Committee, 1978-80. Library of Congress—Council of Scholars, 1981-82. Joint Committee on Soviet Studies, Social Science Research Council—Chair, 1986-89. Académie Internationale d'Histoire des Sciences—Corresponding Member. US-USSR Subcommittee on History and Philosophy of Science, American Council of Learned Societies and Social Science Research Council—Chair, 1987-. **Selected publications:** *Between Science and Values* (Columbia, 1981); co-editor, *Functions and Uses of Disciplinary History* (Reidel, 1983); co-editor, *Red Star: The First Bolshevik Science Utopia* (Indiana, 1984); *Science, Philosophy, and Human Behavior in the Soviet Union* (Columbia, 1987); editor, *Science and the Soviet Social Order* (Harvard, 1990); "Russian and Soviet Science and Technology" (HSS, 1989); "Toward a New Era in US-Soviet Relations," *Issues in Science and Technology*, 1989, 6 (1): 36-42; "Adapting to New Technologies," in *Soviet Social Problems*, ed. T. A. Jones et al. (Westview, 1990); *Science in Russia and the Soviet Union: A Short History* (Cambridge, forthcoming). **Current project:** A survey history of Russian science during the last two centuries.

Monica H. Green

Assistant Professor of History, Duke Univ. Ph.D., Princeton Univ., 1985.



Monica H. Green



Kathryn M. Olesko



Phillip R. Sloan

Specialties: European medieval medicine; history of women in science and medicine. **Selected publications:** "Women's Medical Practice and Health Care in Medieval Europe," *Signs: Journal of Women in Culture and Society*, 1989, 14: 434-73; "Constantinus Africanus and the Conflict Between Religion and Science," in *The Human Embryo: Aristotle and the Arabic and European Traditions*, ed. G. R. Dunstain (Exeter, 1990); "Gynäkologische und geburtshilfliche Illustrationen in mittelalterlichen Manuskripten: Sprechende Bilder halfen den Frauen," *Die Waage*, 1991, 30: 161-67; "Problems of Documenting Medieval Women's Medical Practice," in *Practical Medicine from Salerno to the Black Death* (Cambridge, forthcoming); "Obstetrical and Gynecological Texts in Middle English," in *Studies in the Age of Chaucer*, forthcoming. **Current project:** A study of the texts on women's medicine attributed to Trota of Salerno (12th century).

Kathryn M. Olesko

Associate Professor of History,
Georgetown Univ. Ph.D., Cornell Univ.,

1980. **Specialties:** 19th-century German science, especially physics, science pedagogy, and institutional history; historiography. **Professional activities:** HSS—Council, 1987-89; Committee on Publications, 1992-96; Local Arrangements chair, 1992 annual meeting; Committee on Meetings and Programs, 1991-93; Committee on Education, 1982-88, chair, 1985-88. AAAS—Section L Nominating Committee, 1989-91, chair, 1991. **Selected publications:** *Physics as a Calling: Discipline and Practice in the Königsberg Seminar for Physics* (Cornell, 1991); editor, *Science in Germany: Problems at the Intersection of Institutional and Intellectual History*, *Osiris*, 1989, 5. **Current projects:** *The Meaning of Precision*, a book on the social, economic, political, and scientific meaning of precision measurement in the German states, especially Prussia, from 1780 to 1870. A monograph on Helmholtz's early scientific career.

Phillip R. Sloan

Professor of Liberal Studies, Univ. of

Notre Dame. Ph.D., Univ. of California, San Diego, 1970. **Specialties:** history of life science, 1700-1900; Buffon studies; science and religion. **Professional activities:** HSS—Program chair, 1980 Four-Society meeting; Council, 1981-84; Committee on Meetings and Programs, chair, 1981-83. National Committee, Visiting Historians of Science Program, 1985-89; Dibner Visiting Historian of Science, 1990-91. Reilly Center for Science, Technology and Values, Univ. of Notre Dame—Fellow. **Selected publications:** "Darwin's Invertebrate Program," in *The Darwinian Heritage*, ed. D. Kohn (Princeton, 1985); "Darwin, Vital Matter and the Transformism of Species," *Journal of the History of Biology*, 1986, 19: 369-445; "Natural History, 1670-1803," in *Companion to the History of Modern Science*, ed. R. C. Olby et al. (Routledge, 1990); "Organic Molecules Revisited," in *Buffon 88*, ed. J. Gayon (forthcoming); *Richard Owen's Hunterian Lectures, May-June 1837* (forthcoming). **Current project:** A book on the German biomedical tradition in Victorian England.

NEWS OF THE SOCIETY

The Society notes with regret to the death of Eric T. Carlson, in New York, NY, on 9 February 1992.

Toronto Meeting Transportation and Parking

Those attending this month's BSHS/
CSHPS/HSS joint meeting in Toronto

can get from Toronto International Airport to the Delta Chelsea Inn (33 Gerard Street West) or Victoria University Residence (140 Charles Street West) in one of three ways.

1. **Airport Shuttle Bus Service** runs between the airport and all major downtown hotels. The one-way fare to Delta Chelsea Inn (33 Gerrard St. W.) is \$11.00.

2. **Gray Coach Bus Service** runs between the airport and the Islington, York Mills, and Yorkdale stations on the excellent subway system operated by the

Toronto Transit Commission (TTC). [The Bloor Street line runs east-west; the Yonge Street line runs north-south. The Gray Coach Bus fare is \$6.00/one way or \$10.00/round trip. The Subway fare is \$2.00/one way or \$3.00/two tickets.] Those using this service should take the Gray Coach bus to the Islington station. From there, they should proceed as follows:

- a. To the Delta Chelsea Inn, take the subway going *east* to the **Bloor** station. From this stop, take the subway going *south* to the **College** station.
- b. To the Victoria University Residence on the University of Toronto campus,

take the subway going *east* to the **St. George** station. From this stop, take the subway going *south* to the **Museum** station.

3. **Cab and Limousine Service** is also available at the airport. Flat-rate one-way fares to the Delta Chelsea Inn and the Victoria University Residence are \$38.00 (via the Airport Limousine Service) and \$35.00 (via regular taxi cab service).

Parking is available for guests at the Delta Chelsea Inn at \$15.00 per day. The Victoria University Residence has no parking available, but there are two city-run parking lots nearby, located behind the Colonnade (131 Bloor St. W.) and on the south side of Charles Street, a short distance east of Victoria College. Both charge \$8.00 per day and \$3.00 over-night.

New Editor for *Isis* Sought

The Committee on Publications is currently searching for the next Editor of *Isis*, the official journal of the History of Science Society, to serve a five-year term, January 1994 through December 1998, with the possibility of extension. It is expected that during the term of the next Editor, *Isis* will continue to be published by the University of Chicago Press. Candidates for Editor will need institutional and collegial support to perform a wide variety of editorial tasks. This currently involves, at the Editorial Office at the University of Wisconsin, an Editor, Managing Editor, Book Review Editor, and two graduate assistants, plus a freelance Manuscript Editor and proof readers. The History of Science Society is able to provide major financial support (from the Dibner Fund) for the Editorial Office, but the Editor's institution is expected to provide significant support as well. Potential editors should contact Edith Dudley Sylla, Chair, Committee on Publications [110 Bleeker Street, Apt. 23D, New York, NY 10012; (212) 673-2131] as soon as possible to obtain a packet of additional information. Preliminary proposals for the position should be sent as soon as possible and by 1 October 1992 at the latest. Revised proposals are due 1 November; inter-

views of finalists to take place at the History of Science Society Annual Meeting in Washington, DC, 28 and 29 December 1992.

Changes at *Isis*

Jon M. Harkness, graduate student in the history of science at the University of Wisconsin, Madison, recently became Managing Editor of *Isis*. He succeeds **Rima D. Apple**, who has assumed a tenured Associate Professorship of Consumer Science in the School of Family Resources and Consumer Sciences, University of Wisconsin-Madison.

News of *Osiris*

Osiris 6, "Renaissance Medical Learning: Evolution of a Tradition" (edited by Michael R. McVaugh and Nancy G. Siraisi), appeared in 1991 and all who ordered it should have received their copies long ago. *Osiris* 7, "Science After Forty" (edited by Arnold Thackray), should appear later this year. *Osiris* 8, "Research Schools" (edited by Gerald L. Geison and Frederic L. Holmes), will appear in 1993. [*Osiris* 7 was originally announced as "Research Schools" and *Osiris* 8 was originally announced as "Science After Forty."] Claims for late and missing issues, and requests to shift orders from *Osiris* 7 to *Osiris* 8 (or vice-versa), should be addressed to the Journals Division, University of Chicago Press, 5720 South Woodlawn Avenue, Chicago, IL 60637 USA.

Sets of *Isis* Back Issues Available

The History of Science Society can now send sets of all available pre-1983 *Isis* back issues to *any department or library* (or other institution) that can cover shipping and handling costs. While previous issues of the *HSS Newsletter* have publicized the availability of these sets for libraries in developing countries, the Society can now send these sets to departments or libraries or other institutions throughout the world. Available sets include copies of approximately 85 different issues dating from the mid-1940s through 1982. No set is complete, but the more complete sets will be

distributed on a first-come first-served basis, as long as the Society has access to storage rooms at E. F. Smith Hall at the University of Pennsylvania. Programs, departments, libraries, and others institutions interested in obtaining these sets should send payment for shipping and handling [\$75.00 in North America; \$100.00 elsewhere, via sea mail] to the HSS Executive Secretary as soon as possible.

Dibner Visiting Historians of Science Program

As reported in past issues of the *HSS Newsletter* (e.g., October 1991, pp. 3-4; January 1992, p. 6), the HSS Dibner Visiting Historians of Science Program continues to thrive. With continuing support from The Dibner Fund, a Connecticut-based foundation established in honor of Bern Dibner, the Society's visitors travel regularly to (and speak at) many colleges and universities throughout the United States and Canada that seek to expand the role our discipline plays in their academic programs. While on host campuses, our Dibner Visiting Historians of Science deliver public lectures, conduct specialized seminars for all sorts of audiences, and (perhaps most importantly) meet with administrators and program planners to discuss the many ways in which history of science can enrich a wide variety of curricula. Since the program sponsored its first visits in 1985, such visits have led host institutions to hire historians of science, to increase course listings in the discipline offered by historians of science already on their faculties, to organize on-going study groups for interested students and professors, to schedule in-service training programs, and in other ways to promote the expansion of our field.

For the Spring 1992 semester, the North American Committee overseeing the Program reviewed formal applications from 23 colleges and university and scheduled visits by the current group of Dibner Visiting Historians of Science as follows: Keith R. Benson, to Illinois State University and Nicholls State University (LA); Ruth Schwartz Cowe to the State Univ. of New York College at Cortland and Westbrook College (ME); Mordechai Feingold, to Bellarmine College (KY); Karl

Hufbauer, to Arkansas State University; Sharon Kingsland, to Widener Univ. (PA); Pennsylvania State University, Harrisburg, and Lander College (SC); David Kohn, to Central Connecticut State University, Marshall University (WV), and Saint Anselm College (NH); Mary Jo Nye, to the State Univ. of New York College at Plattsburgh; and Alan E. Shapiro, to Central Michigan University and Metropolitan State University (MN).

For the Fall 1992 semester and afterward, the Committee reviewed applications from 19 institutions and scheduled the following visits: Keith R. Benson, to Washington State University and Western Michigan University; Ruth Schwartz Cowan, to Florida International University and the University of New Mexico; Mordechai Feingold, to the University of Colorado and the University of Massachusetts, Lowell; Karl Hufbauer, to Missouri Western State College; Sharon Kingsland, to the University of Massachusetts, Lowell, Towson State Univ. (MD), and Winona State Univ. (MN); David Kohn, to the Univ. of Indianapolis; Mary Jo Nye, to Rockhurst College (MO); and Alan E. Shapiro, to the Univ. of Alaska, Southeast and St. Lawrence Univ. (NY).

The Society continues to welcome inquiries about the Dibner Visiting Historians of Science Program and encourages institutions seeking to promote our discipline in their campuses to apply for visitors. For further information contact the office of the HSS Executive Secretary.

Volunteers Sought

All HSS members are eligible to serve on the Society's committees and are, indeed, encouraged to volunteer for such service. Members interested in working with standing or ad hoc committees should submit their names to President Sally Gregory Kohlstedt (or any other HSS officer) before 15 September 1992. The Society's Statutes, as published in the 1992 *Guide to the History of Science* (pp. 12-16), list all HSS standing committees.

NEWS OF THE PROFESSION

Congressional Rescissions Threaten NSF Funding

In recent years, as Senators and Representatives have arranged to " earmark" federal appropriations for projects in their own states and districts—e.g., university laboratory buildings and research programs that have not been approved by any peer-review process—many observers have come to criticize such "pork barrel science," and earlier this year President George Bush called for the rescission (i.e., the decision not to spend previously appropriated funds) of grants for selected projects. In response to this call, Senator Robert Byrd (D-WV)—Chair of the Senate Appropriations Committee who in past years has " earmarked" appropriations for West Virginia colleges and universities—set out last May to match the administration. He included in proposed legislation the rescission of previously-made grants for 34 research projects—all listed by name—that he considered "wasteful spending" and examples of "executive branch pork," including 31 supported by the National Science Foundation and three by the National Institutes of Health. All had passed peer review.

The call to rescind these grants did not survive the deliberations of the House-Senate Conference Committee, as the Consortium of Social Science Associations (COSSA, to which the Society belongs) and the public-policy offices of the larger scientific societies mobilized opposition to these proposals, emphasizing their challenge to the merit-review process. But the Conference Committee did rescind \$2 million from the NSF budget for Fiscal Year 1992 (which began 1 October 1991), listed in the Conference Report the 31 grants that "the conferees do not believe ... represent a prudent use of taxpayer funds," and called for NSF "to review its grant selection process." As this issue of the *HSS Newsletter* goes to Press, NSF officials remain undecided how to respond to this call. But they apparently want to avoid asking grant recipients to return any funds, especially those already spent. One possible solution would have NSF reduce its grants in FY 1993 (which

begins on 1 October 1992) by \$2 million, but this resolution does not deal with Congress's decision to challenge the peer-review process and to decide which proposals should or should not be funded.

COSSA has renewed its call for members of its constituent societies to contact members of Congress to express their continued support for the peer-review process and to decry the decision to rescind NSF appropriations for (what most observers agree are) political motives. Historians of science should note that the list of NSF grants originally listed for rescission included two funded by the Studies in Science, Technology and Society Program—"Holism in Psychobiology in the Twentieth Century" and "Applying Space Technology to Global Change: Values, Institutions, and Decisions"—and at least two other historical projects, funded by the Economics Program and the International Program. HSS members who seek additional information about this matter—including copies of the Conference Report—should contact COSSA [1522 K Street, NW, Washington, DC 20005; (202) 842-3525] or the HSS Executive Secretary.

NHPRC Historical Documents Study

In March the National Historical Publications and Records Commission published *Using the Nation's Documentary Heritage*. The report draws heavily on statistical data from 1,394 responses from historians and genealogists to a questionnaire designed to identify patterns and problems in researchers' quests for historical sources. It provides some useful insights and information on how people gain access to and use sources. Copies may be obtained by writing to: Historical Documents Study Report, NHPRC (NP), National Archives Building, Washington, DC 20408.

The NASA History Division has moved to Two Independence Square, at Fourth and E Streets, SE, in Washington, DC. Its mailing address remains Code ADA-2, NASA Headquarters, Washington, DC 20546.

History of Science Society

1992 Annual Meeting 27-30 December 1992

Local Arrangement Co-chairs:

Marc Rothenberg & Kathryn Olesko

Book Exhibit Coordinator:

Paul Theerman

Program Co-chairs:

Theodore M. Porter & Karl Hufbauer

The Society's 1992 annual meeting will be held 27-30 December 1992 in Washington, DC, at the Capital Hilton, two blocks from the White House. The American Historical Association meets at the same time at the Shoreham and Sheraton hotels, accessible by Metro from the Capital Hilton. Hotel and conference registration forms are found in this issue of the *HSS Newsletter* (pp. 19, 21). Early submission of these forms will guarantee room and registration at convention rates; some costs increase after 27 November.

Hotel Reservations

Excellent room rates at the Capital Hilton lead to a total convention package (3 nights, registration, and banquet) lower than previous years. Attendees who wish to fly in on Saturday, 26 December, to take advantage of less expensive airfares may also book rooms at the Capital Hilton for Saturday night at the convention rate. The recently renovated and updated Capital Hilton has hosted every American president since 1943. The hotel has ample space for informal gatherings in its various lobbies, three restaurants (Twigs, Twigs Grill, and Trader Vic's), and a fitness center with steam room and sauna. Convention services available include electronic bulletin boards outside meeting rooms and a full service business center (open weekdays from 8-5) with photocopy, hourly computer rentals, fax, and secretarial services.

The Society and the AHA will have separate book exhibits; convention badges enable admittance to either. Convention badges must be worn at sessions and in the book exhibit area. DC law prohibits attendees from bringing alcoholic beverages into the hotel.

Banquet and Box Lunches

The hotel's catering staff has prepared a banquet menu that features a choice of Baked Escalope of Fresh Norwegian Salmon, Alderwood Smoked Roasted Wild Turkey Supreme, or Pasta Primavera. Wine purchased at the banquet may be charged to a hotel room. For lunch-time meetings and workshops on Monday and Tuesday, 28 and 29 December, attendees may wish to avoid the rush by ordering box lunches, which can be picked up at the Registration Desk in the Upper Lobby on the day of the meeting. Box lunch choices include turkey, roast beef, or tuna sandwiches, with fresh fruit, pretzels, mineral water, and a cookie.

Travel Arrangements

Three airports serve the greater Washington, DC area: National, Dulles, and BWI (located between Baltimore and Washington). The Local Arrangements Committee strongly recommends that convention attendees fly into National Airport, only minutes from the hotel and offering more varied and less expensive group transportation. Attendees may make their own airline reservations or they may wish to call upon the services of Ambassador Travel (1011 4th Avenue, Suite 2401, Seattle, WA 98104, (800) 233-8263, (206) 467-9186, fax (206) 467-9186), whose services HSS has used in past years. When you call, ask for Heidi at the Convention Desk, and tell her you are traveling to the HSS Convention. Ambassador Travel is open from 7 a.m. to 5 p.m. (Pacific Time).

To get from National Airport to the Capital Hilton, take (a) a taxi (approximately \$10 each way; confirm fare with driver before boarding); (b) the Metro (via the Blue Line, to the *McPherson Square* station, taking the K street exit from the station, and then walking approximately 2 blocks to 16th and K Streets); or (c) the Washington Flyer bus, which delivers passengers to its headquarters at 1517 K Street, next door to the Capital Hilton (\$7 one way; \$12 round trip; cash only).

From either Dulles or BWI Airports, take the Baltimore/Washington Flyer bus to its headquarters on K Street. Taxis from both BWI and Dulles are prohibitively expensive.

Travel Grants

With support from the Richard Lounsbery Foundation and other funds, the Society will again award travel grants for the 1992 annual meeting for independent scholars, advanced graduate students, and individuals (including those with temporary and part-time appointments) teaching at smaller colleges and universities without travel budgets. A first competition closed on 22 May 1992. For the 1992 annual meeting, a second competition will be held; applications for this second round must be received by the HSS Executive Secretary by **31 August 1992**. These should include a curriculum vitae and a *brief* letter with the names of two individuals who may be asked about the applicant's scholarly work, the *approximate* cost of economy-class round-trip airfare (or automobile mileage) to the meeting and (most important) a statement about the applicant's formal participation in the meeting. Highest priority for funding will be given to those giving papers in a session at the annual meeting, with next highest priority going to those giving works in progress or participating in Society governance. Students should document their status, and those teaching at institutions without travel budgets should provide brief letters from their deans or department heads.

Tours

The Local Arrangements Committee has scheduled four special tours, all free and available on a first-come, first-served basis, but limited to an enrollment of 20 each.

1. The National Demonstration Laboratory for Interactive Information Technologies, Tuesday, 29 December, 2-4 p.m.

The National Demonstration Laboratory (NDL) is designed to showcase the latest examples of the computer-video hybrids known as "multimedia". Founded at the Smithsonian Institution in 1987, the NDL moved to the Library of Congress in 1991, and opened its new space in the atrium of the LC's Madison Building last March. During the tour, staff will demonstrate some of the latest multimedia learning systems.

2. The Library of Congress, Monday, 28 December, 9:30-10:30 a.m.

This tour highlights the resources and holdings of the Library of Congress in the history of science and technology. Participants will also be brought up to date regarding computerized LC catalogues and security measures. This tour is designed for those contemplating using the LC for research in the near future, and provides an excellent opportunity to catch a glimpse of the LC's extensive renovations.

3. National Museum of American History Smithsonian Institution, Tuesday, 29 December, Noon-1:00 p.m. Jon Eklund, Curator, Division of Computers, and members of the NMAH staff will lead a "Behind the Scenes Tour of the Nation's Attic." The tour will focus on treatment of artifacts the museum, from reception to exhibition.

4. National Air and Space Museum, Smithsonian Institution, Dates and times TBA.

Members of the curatorial staff of NASM will lead tours of various exhibitions dealing with the history of science and technology. Specific subjects and times will be announced later.

Luncheon in Honor of *Historia Mathematica*

This year marks the 20th anniversary of the founding of *Historia Mathematica*, the quarterly journal published by the International Commission on History of

Mathematics and Academic Press. Launched by Kenneth O. May at the University of Toronto as an informal newsletter in 1972, *Historia Mathematica* will be honored during the annual meeting with a special luncheon on Tuesday, December 29. Anyone in Washington at the time is cordially invited to attend this celebration. For additional information, contact the Chairman of the International Commission on History of Mathematics, Joseph W. Dauben [Ph.D. Program in History, The Graduate Center, City University of New York, 33 West 42nd Street, New York, NY 10036 USA; fax (212) 642-2642; e-mail JDX@CUNYVMS1.GC.CUNY.EDU]. To reserve your place, please send him a check (made payable to Joseph W. Dauben) for \$32.50 per person. Additional details will be sent in mid-October to all who respond. Payment should not be enclosed with nor added to the regular meeting registration payment.

The program printed here is subject, we hope, to very little amendment. Asterisks indicate session organizers. Last-minute changes for the final program should be sent to Karl Hufbauer, Department of History, University of California at Irvine, Irvine, CA 92717 or Ted Porter, Department of History, University of California at Los Angeles, 405 Hilgard Avenue, Los Angeles, CA 90024-1473. Sessions requiring projectors, overhead projectors, or other equipment should be called to the attention of the local arrangements chair, Kathryn Olesko, Department of History, Georgetown University, Washington, DC 20057

SUNDAY, 27 DECEMBER

Registration, Capital Hilton, Upper Lobby, Sunday, December 27 from 4:00 p.m.-9:00 p.m.; Monday, December 28 from 8:00 a.m.-5:00 p.m.; Tuesday, December 29 from 8:00 a.m.-1:00 p.m.

HSS Executive Committee, Continental Room, 9:30-12:00

HSS Council, Continental Room, 1:00-6:30

1. Bureaucratic Genius: Innovation and the Federal Presence in the Life Sciences: In honor of Nathan Reingold on his 65th birthday.

(Co-sponsor: Forum for the History of Science in America)
7:30-10:00 p.m.

Chair: Sally Gregory Kohlstedt, University of Minnesota
The Potomac Formation: Building Big Biology in Gilded Age

Washington, Philip J. Pauly, Rutgers University*
Maintaining a Cluttered Mind: Agricultural Breeders' Reception of Biological Theory, 1900-1930, Barbara A. Kimmelman, Philadelphia College of Textiles and Science
Leviathan and the Clinic: Academic Physicians and Federal Research Policy, 1945-1950, Harry M. Marks, Johns Hopkins University
Biotrons, Boats, and Biomes: NSF and the Managing of Big Biology, Toby A. Appel, University of Florida
Commentator: Nathan Reingold

2. Natural Philosophy, Technology and the Arts in the Renaissance, 7:30-10:00 p.m.

Chair: Wilbur Applebaum*, Illinois Institute of Technology
Leonardo da Vinci versus Montezuma, Samuel Edgerton, Williams College.
Back to the Future: Classicism, Progress and Technical Innovation in Renaissance Humanism, Anthony Grafton, Princeton University
The Fate of the Zilsel Thesis, Robert Cohen, Boston University
Science and the Secrets of the Arts: Another Look at the Zilsel Thesis, William Eamon, New Mexico State University

MONDAY, 28 DECEMBER

Committee on Honors and Prizes, 7:30-8:30

Committee on Development, 7:30-8:30

Dibner Visiting Historians of Science, 7:30-8:30

Forum for History of Science in America, Coordinating Committee, 7:30-8:30

3. On the Ground, in the Air and under the Sea: Status, Gender, and Certified Knowledge in Terrestrial Field Science, 9:00-11:30

Chair and commentator: Jane Maienschein, Arizona State University

Heroic Physics in an Adventurous Landscape: Glacier Motion in Mid-Nineteenth Century Britain, Bruce Hevly*, University of Washington

Voyages of Discovery on Oceans of Air: Science, Heroism, and Drama in Victorian Ballooning, Jennifer Tucker, Johns Hopkins University

The S-21 Submarine Expedition: Men at Sea, Women on Shore, Naomi Oreskes*, Dartmouth College

4. Universities and Modernity: Science, Moral Education, and Social Relevance, (Co-sponsor: Forum for History of Human Science), 9:00-11:30

Chair: Richard Olson, Harvey Mudd College

Kantian Philosophy of Science in its German University Context, Steven Lestition*, University of Chicago

Becoming Philosophy: The Transformation of the Academic Tradition in France, 1870-1914, John I. Brooks, III*, Teikyo Loretto Heights University

Archaeology's Transformation of British Education: Students in Academe and in the General Public, 1890-1930, Margot Browning, University of Chicago

Commentator: Phyllis Stock-Morton, Seton Hall University

5. So Why Did Those Guys Write So Funny? The Forms and Audiences of naturphilosophisch Writing, 9:00-11:30

Chair: Kenneth L. Caneva, University of North Carolina, Greensboro

Making Sense of the Fragments: Romantic Hermeneutics and the Excavation of Meaning in Nature, Thomas Broman, University of Wisconsin, Madison

The Man Who Mistook His Instrument for a Wife, Stuart Strickland, Harvard University

Naturphilosophie as Hermeneutic Phantasy, Michael Dettelbach, Stanford University

Programmatics and Practice: Karl Friedrich Burdach and the Audience for a Science of Form, Lynn K. Nyhart*, University of Wisconsin, Madison

6. Popular Rhetoric and Professional Science: The "New Psychology" and Its Audience, 1890-1920 (Co-sponsor: Forum for History of Human Science), 9:00-11:30

Chair: John Burnham, Ohio State University

New Subjects for New Readers: The New Language of Psy-

chology Textbooks, Jill Morawski, Wesleyan University
Didactic Science and Public Persuasion: William James as Pop Psychologist, Paul Croce, Stetson University
A Sermon of New Science: "The Kallikak Family" as Eugenic Parable, Leila Zenderland*, California State University, Fullerton

Commentator: Michael M. Sokal, Worcester Polytechnic Institute

7. Russian Science and the West: Rhetoric and Realities, 1860-1960, 9:00-11:30

Chair and commentator: David Joravsky, Northwestern University

The Formation of the Russian Chemical Society, Nathan Brooks, New Mexico State University

Pasteur and the Russians: The Odessa-Paris Nexus in Bacteriology, 1886-1889, Elizabeth A. Hachten*, Bryn Mawr College

The Emergence of the Isolation of Soviet Science: A Quantitative Study, Daniel A. Alexandrov, Russian Academy of Sciences

Cybernetics, Computing, and Artificial Intelligence: From High Hopes to Sobering Reality, Gregory D. Crowe, Harvard University

8. The Practices of Early Astrophysics: New Perspectives, 9:00-11:30

Chair: Robert W. Smith*, Smithsonian Institution and Johns Hopkins University

Producing and Reproducing Images of the Solar Corona, 1860-1900, Alex Soojung-Kim Pang, Stanford University

The Reception of Kirchhoff's Spectroscopic Methods in England: The Case of William Huggins, Barbara Becker, Johns Hopkins University

He Knew a Good Thing When He Saw It: Henry Norris Russell's Construction of Priorities in Astronomy, David DeVorkin, Smithsonian Institution

Commentator: Karl Hufbauer, University of California, Irvine.

9. The Character of Knowledge in the Post-Modern World, 9:00-11:30

Chair: Thomas P. Hughes, University of Pennsylvania

The Newest Physics and its Social Context, Tian Yu Cao, Harvard University

Climate Change and Culture: Post-modern Perspectives, James R. Fleming, Colby College

The Renunciation of Transcendence in Post-modern Humanistic Scholarship, Paul Forman*, Smithsonian Institution.

Commentator: Leo Marx, Massachusetts Institute of Technology

10. Works in Progress: Science and Technology in the Twentieth-Century, 9:00-11:40

Chair: Pamela Mack, Clemson University

Constructing Uniformity: The Ways and Means of Standardization, Larry Randles Lagerstrom, University of California, Berkeley

MIT's Struggle to Define a Machine: Computers, Calculators, and Differential Analyzers, Larry Owen, University of Massachusetts, Amherst

America's Depression-Era Debate over Technological Unemployment and Scientific Research, Amy Sue Bix, Johns Hopkins University

The Genesis of the Franck Report: Why Chicago?, Matthew Price, Stanford University

The Making of a Science-Based Technological University: Karl Compton, James Killian, and the Reform of MIT, Christophe Lécuyer, Stanford University

Making a Machine Instrumental: The Electron Microscope in the '40s, Nicolas Rasmussen, Princeton University

Biocybernetics 1940-1990: The Reconceptualization of the Human Body, Chris Hables Gray, independent scholar

Scientific Dissent and the Soviet Academy: A Personal View, Serge Bozhich, Moscow

11. Darwin and Freud in American Culture

(Joint session with the American Historical Association; Co-sponsor: Forum for History of Human Science), 9:30-11:30

Chair: James Turner*, University of Michigan

American Scientists and Organic Evolution, 1859-1900, Ronald L. Numbers, University of Wisconsin, Madison

Freudianism and American Christian Theology, 1910-1940, Jon H. Roberts, University of Wisconsin, Stevens Point

Commentators: James Turner

Deborah J. Coon, Rensselaer Polytechnic Institute

Forum for History of Science in America

12:00-12:30 Business Meeting

12:30-1:30 Program: *Legal Copyright and Libel Issues in Contemporary Publishing: A Roundtable Discussion with Historians and Publishers.*

Committee on Women, 12:00-1:00

OSIRIS Editorial Board, 12:00-1:00

Committee on Education, 12:00-1:00

Early Science Interest Group, 12:00-1:00

12. Scientific Reaction to UFOs: Papers on the 40th Anniversary of the UFO Wave over Washington D.C., and the 25th Anniversary of the Condon Report, 1:30-3:30

Chair and commentator: Steve Dick*, US Naval Observatory

Extraterrestrial Intelligence and the UFO Phenomenon in the Early Years of Air Force Project Blue Book, Michael Swords, Western Michigan University

The Condon Report on the Colorado UFO Project, Peter Sturrock, Stanford University

J. Allen Hynek and the UFO Dilemma, David Jacobs, Temple University

13. Professionalism: An Implied Warranty, 1:30-3:30

Chair and commentator: Ralph W. Brauer, Institute for Research on the Interrelation of Science and Culture

The Professionalism of the Roman Architect, William L. MacDonald, independent scholar

Medical Professionalism from Antiquity, H. William Gillen*, Institute for Research on the Interrelation of Science and Culture

Ancient and Modern Engineering: Professionalism Compared, George W. F. Hauck, University of Missouri, Kansas City

14. Material Understanding: Artisans and Natural Philosophers in the Scientific Revolution, 1:30-3:30

Chair: Owen Hannaway, Johns Hopkins University

The Scholar and Craftsman Revisited, Pamela O. Long, Washington, D.C.

The Erasure of the Artisan in Seventeenth-Century Natural Philosophy, Pamela H. Smith*, Pomona College

Consuming Philosophy: The Making of the Market for Natural Philosophy in the Eighteenth Century, Larry Stewart, University of Saskatchewan

Commentator: Lesley B. Cormack, University of Alberta

15. Discovering the "Normal" at the Fin-de-siècle

(Co-sponsor: Forum for History of Human Science), 1:30-3:30

Chair and commentator: JoAnne Brown, Johns Hopkins University

Symbols of Normalcy and Deviance: The Impact of Photographic and Statistical Representation on the "Study of Man," Jeffrey C. Brautigam, University of Florida

Between Geniuses and the Feebleminded: American Psychologists and the Discovery of the Normal, John Carson*, Princeton University

Everyday Practices and Scientific Knowledge: Psychiatrists and the Normal, 1900-1930, Elizabeth Lunbeck, Princeton University

16. Science at the Margins in Victorian England, 1:30-3:30

Chair and commentator: Robert Richards, University of Chicago

Recapturing the Past: The Moral Sciences and a Liberal Education David Valone, University of Chicago

Master and Machine: On the Discourse of Science and Technology in Victorian England, Paul White, University of Chicago

Science or Pseudo-Science? The Investigation of Sea Monsters in Victorian England, Sherrie Lyons*, Daemen College

17. Science in the Pacific Century

(Co-sponsor: Pacific Circle), 1:30-3:30

Chair: Keith Benson, University of Washington

The Meanings of Success: Tropical Medicine and Bacteriology in Boston and the Andes, Marcos Cueto, Massachusetts Institute of Technology

Viewing Pacific Science through the Lens of the Pacific Science Association, Fritz Rehbock*, University of Hawaii

The Smithsonian Goes to War: The Increase and Diffusion of Scientific Knowledge in the Pacific During World War II, Pamela Henson, Smithsonian Institution
Airfield Construction in the South Pacific: The Machine in the Garden, Donald Fitzgerald, independent scholar

18. Mapping the Invisible: Faunal Distribution, Geological Change, and Evolutionary Trees, 1:30-3:30

Chair: M. Susan Lindee*, University of Pennsylvania
Places and Spaces: Mapping Biological Distributions, Jane Camerini, independent scholar, Madison, Wisconsin
From Services to Structures: The Trajectory of Block Diagramming, Mark Lawrence Hinkle, University of California, San Diego
Mapping the History of Life: Evolutionary Trees and Systematic Generalization, Robert O'Hara, University of Wisconsin, Madison
 Commentator: Josef W. Konvitz, Michigan State University

19. Works in Progress: Cultural and Political Connections of Science, Technology, and Medicine, 1:30-3:30

Chair: Peggy Kidwell, Smithsonian Institution
Science in Antebellum Natchez, Robert J. Malone, University of Florida
Luther Burbank as an Icon of Popular Science, Katherine Pandora, University of California, San Diego
Competing Images of the Female Physician, Arleen Tuchman, Vanderbilt University
Fantasizing Toward Power: Scientist as Handmaiden; Inventor as Change Agent, Fred M. Amram, University of Minnesota
From Ironing to Transplants: Woman as Inventor, Sandra A. Brick, Science Museum of Minnesota
John Dewey and Myrtle McGraw: Friendship as a Unit of Analysis in Intellectual History, Ann E. Densmore, Harvard University

20. Body and Culture: Early Anatomy in Comparative Perspective (Joint session with the American Historical Association), 2:30-4:30

Chair and commentator: Nancy Siraisi, Hunter College of the City University of New York
On the Significance of Letting Blood: Greece and China, Shigehisa Kuriyama, Emory University
Anatomy and Rhetoric: Galen on Dissection and Persuasion, Heinrich von Staden, Yale University
The Sensitive Corpse: Opening the Body in Late Medieval Europe, Katharine Park*, Wellesley College

21. The Wider Context of Medieval Learning: Session in Honor of John Murdoch's 65th Birthday, 4:00-6:00

Chair: Edith Dudley Sylla*
Medical Learning and its Public in the Middle Ages, Michael McVaugh, University of North Carolina, Chapel Hill
John of Rupescissa and Bernard of Trier: Two Models of the

Relationship of Alchemy and Religion in the Middle Ages, William Newman, Harvard University
The Ivory Tower and the Burg: Academic Consulting in Late Medieval Vienna, Michael Shank, University of Wisconsin
 Commentator: Joan Cadden, Kenyon College

22. Critical Problems in the History of Mathematics: A Round Table Discussion, 4:00-6:00

William Aspray, IEEE-Rutgers Center for the History of Electrical Engineering
 Liliane Beaulieu, Université de Québec, Montréal
 I. B. Cohen, Harvard University
 Michael J. Crowe, University of Notre Dame
 Joseph Dauben, City University of New York
 Charles C. Gillispie, Princeton University
 Judith V. Grabiner, Pitzer College
 Wilbur Knorr, Stanford University
 Michael S. Mahoney, Princeton University
 Karen Parshall, University of Virginia
 Helena Pycior, University of Wisconsin, Milwaukee
 Joan Richards, Brown University

23. The Nuclear Pacific (Co-sponsor: Pacific Circle), 4:00-6:00

Chair Gary Weir, Naval Historical Center, Washington
"Destination": Getting Ready to Drop the Bomb, Stanley Goldberg, independent scholar
Bravo and the Marshallese: Fallout from the 1954 H-Bomb Test, Barton Hacker, Lawrence Livermore National Laboratory
The History of Human Irradiation in the South Pacific, Sue Rabbitt Roff, Dundee University
The Australian Atomic Energy Program, Roy MacLeod*, University of Sydney
 Commentator: Roger Anders, U.S. Department of Energy

24. The Formation of Scientific Culture in Early Modern Italy: Strategies and Initiatives, 4:00-6:00

Chair and commentator: Thomas Settle, Polytechnic University
The World of Niccolo Tartaglia: A Maestro d'Abaco between the Canon and the Book, Mary J. Voss, Johns Hopkins University
"Virtuosi" and "Vain Speculators": Agostino Scilla, the Epistemology of Sense Experience, and "la Veridica Storia", Richard Lombardo, University of California, San Diego
Feminine and Newtonian: Laura Bassi and Experimental Philosophy in Enlightenment Italy, Paula Findlen*, University of California, Davis

25. Science and Political Unification in the New Germany, 4:00-6:00

Chair: Kristie Macrakis
Science and Political Unification in the New Germany, Kristie Macrakis*, Michigan State University
Legal Aspects of Abwicklung in East Germany and its Effects on Academic Freedom, Vincent Brannigan, University of

Maryland

West German Perceptions of East German Science Contrasted with the Realities, Reinhard Siegmund-Schultze, University of New Hampshire

Commentator: Everett Mendelsohn, Harvard University

26. **Maverick Astronomers, 4:00-6:00**

Chair: John Lankford*, West Virginia University

The Education of a Deviant Scientist: Thomas Jefferson Jackson See, Charles J. Peterson, University of Missouri, Columbia

Fireflies Flashing in Unison: Percival Lowell and Edward Morse, David Strauss, Kalamazoo College

William H. Pickering in Jamaica: Studies on the Moon and Mars, Howard Plotkin, University of Western Ontario

Commentator: Barbara Becker, Johns Hopkins University

27. **The Rise of the Social Sciences and Public Discourse in Twentieth Century America** (Co-sponsor: Forum for History of Human Science), 4:00-6:00

Chair: W. Bernard Carlson*, University of Virginia

Twentieth-Century Journalism and the Rise of the Expert, Janet E. Steele, University of Virginia

The Politics of Real Estate Research, Marc A. Weiss, Columbia University

American Social Science Constructs the Woman Worker, Helene N. Silverberg, Princeton University

Commentator: Mark Rose, Florida Atlantic University

28. **Works in Progress: Cultural and Political Connections of Recent Science, 4:00-6:00**

Chair: John Beatty, University of Minnesota

Cultural Connections: Using Art History in Teaching History of Science, Sheldon J. Kopperl, Grand Valley State University

Malvina Hoffman and the Field Museum of Natural History: Art and Science Representing Race, Tracy Teslow, University of Chicago

Chemists and Consumer Culture, 1900-1930, Elizabeth Melia, Johns Hopkins University

The Social Science of Occupational Disease: John Andrews and Irene Osgood's 1909 Study of Phosphorus Poisoning, Christopher C. Sellers, Yale University

The Vienna Circle's Larger Political Context, Louise Golland, University of Chicago

Scientific Error, Public Morality and Scientific Progress: The David Baltimore Affair as an Indirect Forum for Public Debate, Ullica Segerstrale, Illinois Institute of Technology

Forum for History of Human Science, Business Meeting, 6:15-7:00

The Year of Gassendi: The Gassendi Correspondence and the Future of Scholarly Editions, 6:15-7:00

History of Astronomy Interest Group, 6:15-7:00

History of Chemistry Interest Group, Dinner Meeting, 7:00-9:00

ISIS Editorial Board, Dinner Meeting, 7:00-9:00

Henry Sigerist Circle of Medical Historians, Reception, 8:00-10:00

TUESDAY, 29 DECEMBER

Committee on Publications, 8:00-5:00

Committee on Research and the Profession, 7:30-8:30

Committee on Meetings and Programs, 7:30-8:30

29. **Psychology and Styles of Reasoning in Interwar Germany and America** (Co-sponsor: Forum for History of Human Science), 9:00-11:30

Organized by Margaret Schabas, York University

Chair and commentator: Gerd Gigerenzer, University of Chicago
From Stimulus-Response to Intervening Variables: The Emergence of a Disciplinary Language for Psychology, Kurt Danziger, York University

Emigré Psychologists after 1933: Change in Scientific and Professional Practices, Mitchell G. Ash, University of Iowa
Negotiating with Modernism: Kurt Goldstein's Neurobiology of Heroic Wholeness, Anne Harrington, Harvard University

30. **The Meaning of Precision, 9:00-11:30**

Chair and commentator: Stuart W. Leslie

Precision, Authority, and the State, Kathryn Olesko, Georgetown University

Morals and Measurement in Victorian Britain, Graeme Gooday, University of Kent

The Ohm Is Where the Art Is: Electrical Standards in Victorian Telegraphy, Bruce Hunt*, University of Texas, Austin

31. **The Role of Science Policy in the Rise of Molecular Biology: In Honor of John T. Edsall's 90th Birthday, 9:00-11:30**

Chair: Everett Mendelsohn, Harvard University

Leo Szilard and Post-War Science: From Nuclear Physics to Molecular Biology, William Lanouette, independent scholar
Science and Politics in the New Russia: The Case of Nikolai W. Timofeev-Ressovsky, Kirill Rossianov, Russian Academy of Sciences

French Science Policy toward Molecular Biology: The Roles of CNRS and DGRST, Jean-Paul Gaudillière, CNRS Paris and Massachusetts Institute of Technology

Science Policy as Constitutive of Molecular Biology: A Comparative Analysis of Initiatives in UK, US, and France, Pnina G. Abir-Am*, Johns Hopkins University

Commentators: John T. Edsall, Harvard University
Paul K. Hoch, University of Nottingham

32. Calculating Liberals: Ideology, Social Numbers, and Government Policies in Nineteenth-Century Europe, 9:00-11:30

Chair: Patricia Cline Cohen, University of California, Santa Barbara

Infant Mortality and the Visibility of Poverty: Aspects of the History of a Social Indicator in Late Nineteenth-Century France and Germany, Joshua Cole, University of California, Berkeley

Italian Elites and the Knowledge of the New State: Statistics and Liberal Politics, 1861-1876, Silvana Patriarca*, Columbia University

How International Organization Counted: Population Statistics and the Measurement of "Progress," Mark Ventresca, Stanford University

Commentator: Kristie McClure, Johns Hopkins University

33. The History of American Mathematics, 9:00-11:30

Co-chairs: Karen V. H. Parshall*, University of Virginia and Joseph W. Dauben, City University of New York

The Periodization of the History of Research-Level Mathematics in America, Karen V. H. Parshall

Modern Mathematics in China: The Significance of the United States as Model and Mentor, Joseph W. Dauben

Mathematical Physics and the American Mathematics Profession to World War II, Loren Butler, University of Chicago

General Discussion of the Critical Problems Facing Researchers in the History of American Mathematics, led by the session participants

34. Science and History in the Late Enlightenment and Early Romantic Period, 9:00-11:30

Chair and commentator: Phillip R. Sloan

Historicism and the Life Sciences, 1740-1790: What Evidence Should We Use?, James Larson, University of California, Berkeley

Natural Science and the Creation of the Modern 'Science' of History in the late 18th Century: The Case of Wilhelm von Humboldt, Peter Reill, University of California, Los Angeles

The Emergence of Historical Perspectives on Climate in the Eighteenth and Early Nineteenth Centuries, Theodore S. Feldman*, University of Southern Mississippi

35. Works in Progress: Twentieth-Century Physics and Astronomy, 9:00-11:40

Chair: Spencer Weart, American Institute of Physics

George Burgess and Physics at the National Bureau of Standards, 1900-1930, David Cahan, University of Nebraska

Einstein's View of Experiments, Klaus Hentschel, University of Göttingen

Einstein's Identity as a German-Jewish Theoretical Physicist, Peter Degen, University of California, Berkeley

Bringing the Human Actors Back on Stage: The Personal Context of the Einstein-Bohr Debate, David Kaiser, Dartmouth College

Treatment of Dissent in Modern Physics: The Twin-Paradox Controversy and Herbert Dingle's Vision of Science, Hasok Chang, Stanford University

The Theoretical Physicist Pascual Jordan as Biological Theorist, Richard H. Beyler, Harvard University

Lise Meitner: Letters and Recollections, Sallie A. Watkins, University of Southern Colorado

A Destiny Not Decided: Edwin Powell Hubble as a Rhodes Scholar, 1910-1913, Gale E. Christianson, Indiana State University

36. Works in Progress: Medieval and Early Modern Science, 9:00-12:00

Chair: Robert Hatch, University of Florida

Norman and Swabian Institutions Facing the 12th-Century Idea of Nature, Piero Morpurgo, Centro Biagio Pelacani da Parma Università degli Studi di Parma

The Influence of the Kabbalah on Leibniz's Thought, Alison P. Coudert, Arizona State University

Cavaliere, the Jesuits, and the Politics of Indivisibles, Amir Alexander, Stanford University

The Role of Reasoned Anomaly in William Harvey's Discovery of the Circulation of the Blood, Tom McMullen, Georgia Southern University

Johann Faulhaber and the Origin of Descartes' Mathematics, Ivo Schneider, Deutsches Museum/Universität München

Galileo and Kepler: An Old Problem Revisited, Wilbur Applebaum, Illinois Institute of Technology

The Role of Circular Motion in Galileo's Paduan Mechanics, David Hill, Augustana College

Cause of Gravity: Implications of Newton's Use of the Third Law of Motion in Book III of the Principia., Dana Densmore, St. John's College

Jean-Baptiste Gaspard de Saron (1730-1814), Scientist, E. L. Gonzalez, University of Chicago

37. Objectivity, Subjectivity, and Community: Three Empirical Studies (Joint session with the American Historical Association), 9:30-11:30

Chair: Peter Dear, Cornell University

Objectivity, Modernism, and the Scientific Revolution: A Revisionist View, Barbara Shapiro, University of California, Berkeley

The Objective Persona: Polarizing Artistic and Scientific Selves in the Mid-Nineteenth Century, Lorraine Daston, University of Chicago and Peter Galison, Harvard University

Objectivity and Community in Science, Theodore M. Porter, University of California, Los Angeles

Commentator: Allan Megill*, University of Virginia

HSS Business Meeting, 11:45-12:30

38. Workshop on the Relation of Oral and Archival Sources in Writing History and Biography (Co-sponsor: Forum for History of Science in America), 12:00-1:45

Chair: Ronald E. Doel*, American Institute of Physics

Panelists:

James Gleick, science writer
 Ron Grele, Columbia University
 Lillian Hoddeson, University of Illinois, Urbana-Champaign

39. Bringing the History of Science to a Wider Audience
 (Co-sponsor: HSS Committee on Education), 12:00-1:45

Organized by Paul Theerman, Smithsonian Institution

Chair: Stanley Goldberg, independent scholar

Panel Members

Diane B. Paul, University of Massachusetts, Boston
 Robert W. Smith, Smithsonian Institution
 Arthur P. Molella, Smithsonian Institution
 David K. Allison, Smithsonian Institution

History of Mathematics Lunch, 12:00-1:30

Committee on Diversity, 12:30-1:30

Committee on Independent Scholars, 12:30-1:30

Committee on Finance, 12:30-3:30

Budget Subcommittee: 3:30-4:30

Investments Subcommittee: 3:30-4:30

40. The Boundaries Between Chemistry and Physics: France, Germany, and the USA in the Nineteenth and Twentieth Centuries, 2:00-4:30

Chair: Sylvan S. Schweber, Brandeis University

From Chemists to Physicists: Henri Victor Regnault in Nineteenth-Century France, Matthias Dörries, CNRS, Paris.

German Physicists as Chemists: Helmholtz, Planck, and Nernst, Diana Barkan, California Institute of Technology

Who is Chemist? Who is Physicist? Is there a Distinction in U.S. Quantum Science?, Alexi Assmus*, University of California, Berkeley

Commentator: Erwin Hiebert, Harvard University

41. John Herschel: Two Hundred Years after his Birth, 2:00-4:30

Chair: Michael J. Crowe*, University of Notre Dame

Defending the Muse: Herschel, Talbot, and the Invention of Photography, Larry J. Schaaf, independent scholar

Sir John Herschel and Meteorology, Vladimir Jankovic, University of Notre Dame

A Reconsideration of John Herschel's Philosophy of Science and its Religious Foundations, Marvin Bolt, University of Notre Dame

Commentator: Reese Jenkins, Rutgers University

42. Large-Scale Collaborative Research: The Case of High-Energy Physics, 2:00-4:30

Chair: Joan Warnow-Blewett, Center for History of Physics,

American Institute of Physics

Science in Democracy and Democracy in Science: The Politics of the "CLEO" Collaboration, Joel Genuth, Center for History of Physics, American Institute of Physics

Experimental Style in High-Energy Physics: The Discovery of the Upsilon Particle, Frederik Nebeker*, IEEE-Rutgers Center for the History of Electrical Engineering

Doing 'Good Physics': Big Science and Small Group Productivity, Lynne G. Zucker, University of California, Los Angeles; Anna Leon-Guerrero, University of California, Los Angeles; Maggy Phillips, University of California, Los Angeles

Commentator: Joseph N. Tatarewicz

43. Text and Pedagogy in History of Science, 2:00-4:30

Chair: Daniel P. Jones, National Endowment for the Humanities

Introduction: Rationale and Background of Guided Studies, Harvey Flaumenhaft, St. John's College

Galileo, Maurice A. Finocchiaro*, University of Nevada, Las Vegas

Lavoisier, Arthur Donovan, US Merchant Marine Academy

Einstein, Daniel M. Siegel, University of Wisconsin, Madison
 Commentator: Frederic L. Holmes, Yale University

44. Teaching of the Arts and Sciences During the Renaissance, 2:00-4:30

Chair: Mordechai Feingold, Virginia Polytechnic Institute and State University

Philosophy Teaching at the University of Paris: The Case of Janus Caecilius Frey (active 1610-1631), Ann Blair, Harvard University

The Career and Writings of Bartholomew Keckermann (d. 1609), Joseph S. Freedman*, Illinois Wesleyan University

Knowledge, Higher Knowledge, and a Venetian Academy: Extra Formal Schooling in the Renaissance, Marion L. Kurtz, Georgia State University

45. Representation, Replication, and Morality: Statistics and Economics in the Nineteenth Century (Co-sponsor: Forum for History of Human Science), 2:00-4:30

Chair: Philip Mirowski*, University of Notre Dame

Narrative Turns and Statistical Moments: Fixing the Malthusian Body in the Works of Harriet Martineau and L. A. J. Quetelet, Brian Cooper, Harvard University

The "Task of Classifying the Whole Body of Social Statistics": The British Case from Richard Jones to Patrick Geddes, James P. Henderson, Valparaiso University

The Interplay of Deception and Accountability in the Time Series Algorithms of the Bank of England, 1797-1844, Judy L. Klein, Mary Baldwin College

Morality in the Marketplace and American Economists, Mary Morgan, London School of Economics

The Meaning of Replication in Scientific Practices, Philip Mirowski

46. Works in Progress A: Enlightenment and Romanticism, 2:00-3:00

Chair: Seymour Mauskopf, Duke University

Conversation Pieces: Polite Discourse and the Social Utility of Books and Instruments in 18th Century England, Alice Walters, University of California, San Diego

Johann Christian Reil and Marcus Herz: The Critique of Reason and the Genesis of Naturphilosophie, LeeAnn Hansen Le Roy, California State University, Fullerton

From Living to Dead Library: From the Human to the Technical Mastering of the Totality of Knowledge at the End of the Eighteenth Century in Germany, Pertti Vakkari, University of Tampere, Finland

Works in Progress B: Twentieth-Century Psychology, 3:00-4:40

Chair: Mitchell Ash, University of Iowa

Psychology in Search of a Laboratory, Johannes C. Pols, University of Pennsylvania

Wladimir Bekhterev's Reflexology: Psychosocial Landscaping of Europe in the early 20th Century: Cheryce M. Kramer, University of Chicago

The City Foursquare: Rhetoric, Religion, and the New Psychology in Popular Writing at the End of the Gilded Age, Wade E. Pickren, University of Florida

Legitimizing Expertise: Psychology, Sex, and Science in Interwar America, Stephanie H. Kenen, University of California, Berkeley

Lashley, Watson, and the Meaning of Behaviorism, Nadine Weidman, Cornell University

47. Works in Progress A: Nineteenth-Century Physical Sciences, 2:00-3:20

Chair: Joe D. Burchfield, University of Northern Illinois

The British Reception of Fraunhofer, Myles W. Jackson, Technical University, Berlin

The Visual Representation of Sound and Theories of Timbre in the Nineteenth Century, Robert J. Silverman, University of Washington

Johannes Wislicenus and the Development of Mechanical Chemistry, Peter J. Ramberg, Indiana University

Scientific Discovery through the Act of Writing: Candidate Examples, 1780-1850, Cyril Galvin, independent scholar

Works in Progress B: Twentieth-Century Biological Sciences, 3:20-4:40

Chair: Liliane Beaulieu, Université de Québec

Reinterpreting the Relationship Between Mendelian and Darwinian Ideas in Early Genetics, Jarga Vicedo, University of Salamanca, Spain

With an Eye on the Future: The Fisherian 'Runaway' Selection and Human Progress, Mary M. Bartley, Cornell University

Graveyard or School for Lymphocytes: J. F. A. P. Miller, R. A. Good, and the Early Research on the Immunological Role of the Thymus, Craig R. Stillwell, Stanford University

Attendance at Scientific Meetings as an Indicator of the Structure and Dynamics of a Life Science: The Case of Postwar Immunology, Thomas Söderquist, Stanford University and University of Gothenburg, Arthur Silverstein, Johns Hopkins University

48. Epistemic and Political Communities: Toward a Post-Ethnic Perspective? (Joint session with the American Historical Association), 2:30-4:30

Chair: John Higham, Johns Hopkins University

Widening the Circle of the We, David Hollinger*, University of California, Berkeley

Commentators:

Adolph Reed, Jr., Northwestern University

Evelyn Fox Keller, Massachusetts Institute of Technology

Philip Gleason, University of Notre Dame

HSS Distinguished Lecture, 5:00-6:00

Introduction: Charles Gillispie, Princeton University

The Enemies Without and Within: Cancer and the History of the Laboratory Sciences, Daniel J. Kevles, California Institute of Technology

HSS President's Reception for Prize Winners, 6:00-7:30

The Renaissance in Film, (Joint Session with the American Historical Association), 6:30-8:00

Chair: Nadine Ishitana Hata, El Camino College

Showing of film: "The Scientist"

Comments on the historian's role: Theodore K. Rabb, Princeton University

Comments on the director's role: Lee R. Bobker, Vision Associates

Comments on the classroom use: Sherrin Marshall, U.S. Department of Education

Comments on community college use: Jon James Alexiou, Miami-Dade Community College

HSS Banquet, 8:00-10:00**Wednesday, 30 December****49. Disciplining the Subject: Three Case Studies, 9:30-12:00**

Chair and commentator: Evelyn Fox Keller, Massachusetts Institute of Technology

Civilizing the Scientists' Subjectivity, Mario Biagioli, University of California, Los Angeles

Fictions, Medicine, Masturbation and the Making of Sexuality in the Eighteenth Century, Thomas Laqueur, University of California, Berkeley

The Subject of Suggestion, Ruth Leys*, Johns Hopkins University

50. Science, Technology, and Cold War: New Perspectives, 9:30-12:00

Chair: Michael Aaron Dennis*, University of California, San Diego

'Atonement': War Guilt and the Atomic Bomb Casualty Commission, M. Susan Lindee, University of Pennsylvania

The Search for 'Who We Are.' Exobiology as Cold War Science, V. Betty Smocovitis, Stanford University

Back to Work: Merle Tuve at the Department of Terrestrial Magnetism after World War II, Michael Aaron Dennis

Commentator: Larry Owen, University of Massachusetts, Amherst

51. Visualizations: The History of Science as the History of Imaging (Joint session with the American Historical Association), 9:30-11:30

Chair: Barbara Maria Stafford*, University of Chicago

From Traditional Histories of Representation to an Imaging Art- Science of the Future, Barbara Maria Stafford

Leaving a Permanent Trace: Cook's Mapping of the South Pacific, Richard Sorrenson, Indiana University

Spatial Thinking Before and After Computers, James Elkins,

School of the Art Institute of Chicago

Visions of Theory, Timothy Lenoir, Stanford University
Commentator: M. Norton Wise, Princeton University

Sickness and Suffering in Cultural Context: Nineteenth and Twentieth-Century Representations of Disease (Joint session with the American Historical Association), 1:00-3:00

Chair: Daniel J. Kevles, California Institute of Technology

The Prostitute Becomes a Saint: Tuberculosis and the Suffering Woman in Nineteenth-Century France, David S. Barnes, University of California, Berkeley

The Gender of the Therapist: An Exploration of Differences in Male and Female Psychotherapists' Treatment of Women Between 1920 and 1940, Margo Horn, Stanford University

"An Heirloom from Generations Away Back in the Dim Past:" Constructing the History of Huntington's Disease, Alice Wexler, independent scholar, Riverside, California

Commentator: Gerald Geison, Princeton University

See hotel registration form on page 21

History of Science Society Annual Meeting

Capital Hilton, Washington, DC

27-30 December 1992

Conference Registration Form:

NAME: _____

INSTITUTION: _____

ADDRESS: _____

Circle one: HSS Member Non-member

PREREGISTRATION (by 27 November 1992):

		No.	Subtotal
Member	\$50	_____	_____
Non-member	\$70	_____	_____
Student, un- and underemployed	\$30	_____	_____

LATE REGISTRATION (after 27 November 1992):

Member	\$65	_____	_____
Non-member	\$85	_____	_____
Student, un- and underemployed	\$45	_____	_____

BANQUET: Tuesday evening, 29 December

Salmon	\$45	_____	_____
Turkey	\$45	_____	_____
Pasta	\$45	_____	_____

BOX LUNCHES:

[Individuals participating in lunch-time workshops and meetings of committees and interest groups may order box lunches]

Monday, 28 December \$17 _____

Circle one: turkey roast beef tuna _____

Tuesday, 29 December \$17 _____

Circle one: turkey roast beef tuna _____

TOTAL OF ALL CHARGES: _____

Please make checks payable (in US dollars) to: "HSS Local Arrangements" and return to:

Marc Rothenberg
Local Arrangements CoChair
A&I 2188, MRC 429
Smithsonian Institution
Washington, DC 20560

TOURS:

Available free on first come, first served basis. Limited to 20 persons per tour.

Circle choice(s):

The Library of Congress; Monday, 28 December, 9:30-10:30 a.m.

National Museum of American History, Smithsonian Institution: "Behind the Scenes in the Nation's Attic;" Tues., 29 Dec., Noon-1:00 p.m.

The National Demonstration Laboratory for Interactive Information Technologies: Tuesday, 29 December, 2-4 p.m.

National Air and Space Museum, Smithsonian Institution; TBA

RELATED SOCIETIES

The **European Association for the History of Medicine and Health (EAHMH)** has been created recently, after several meetings at which medical historians from Europe and North America discussed the aims, objects, and organisation of such a new scientific society. All agreed on the need for a high level academic forum in Europe, at which scholars interested in the history of medicine and other medical specialties as well as demographers, social historians, social anthropologists, could meet and exchange ideas. The purpose of the Association is also the education of the public in the historical perspective of problems of medicine, health and disease. The official seat of the Association is at the Université Louis Pasteur, Strasbourg, and its first officers include: President, U. Tröhler (Göttingen); Secretary/Treasurer, C. Debru (Strasbourg); members of the Council, H. Beukers (Leiden), B. Lindskog (Copenhagen), and the President of the Université Louis Pasteur (or his deputy). The Association seeks members from all parts of the world and offers (for annual dues of 150 French Francs) an annual newsletter and reduced-rate fees for the proceedings of its biennial congresses and other publications. For further information contact C. Debru, Centre Européen d'Histoire de la Médecine, Faculté de Médecine, 4, rue Kirschleger, 67085 Strasbourg Cedex, France. The first congress will take place in Göttingen in September 1993; for further information contact U. Tröhler, Institut für Geschichte der Medizin, Humboldtallee 11, D-3400 Göttingen, Germany.

FUTURE MEETINGS & CALLS FOR PAPERS

A multidisciplinary, international conference on **Academic Knowledge and Political Power** will be held at the University of Maryland, 20-22 November 1992. For further information contact Richard Harvey Brown, Department of Sociology, University of Maryland, College Park, MD 20742.

The **American Association for the History of Medicine** invites paper proposals on any aspect of the history of medicine for its 1993 Annual Meeting,

Louisville, KY, 13-16 May 1993. Each twenty-minute presentation must represent original work not already published or in press. Potential speakers should submit seven copies of one-page abstracts incorporating a statement of the research question, findings, and conclusion, along with their names, titles (occupations), preferred mailing addresses, work and home telephone numbers, present institutional affiliations, and academic degrees, to the Chair of the Program Committee, Nancy J. Tomes, Department of History, State Univ. of New York, Stony Brook, NY 11794-4348, by **15 October 1992**.

The 25th annual conference of the **Australasian Association for the History, Philosophy and Social Studies of Science** will meet 11-15 July 1992, University of New South Wales, Kensington. For further information contact the Secretary, AAHPSSS Conference Committee, School of STS, University of New South Wales, P. O. Box 1, Kensington, NSW 2033 Australia.

An international conference, **Disease & Society in the Developing World: Exploring New Perspectives**, will be sponsored by the Francis C. Wood Institute for the History of Medicine and held 24-27 September 1992 at the College of Physicians of Philadelphia. Featured speakers include Philip Curtin on "Disease and Environmental History," David Arnold on "Colonial Medicine in Transition: India, 1917-1947," presentations by Randall Packard, Paul Greenough, John Farley, and Michael Worboys, and over twenty other papers on issues of colonialism, race, disease theory and control, gender, the effect of the tropics on health, and the impact of Western medicine on societies in the developing world. For information about registration and accommodations and a detailed program contact Carla C. Jacobs, F.C. Wood Institute, College of Physicians of Philadelphia, 19 South 22nd Street, Philadelphia, PA 19103; (215) 563-3737, ext. 273.

The **15th International Conference on the History of Cartography** will be held in Chicago, 21-25 June 1993, under the aegis of the International Society for the History of Cartography and the Hermon

Dunlap Smith Center for the History of Cartography at the Newberry Library. Conference themes include "Mapping the Americas," "Commercial Mapmaking," "Cartography and Mathematics," "The Aesthetics of Cartography," "Cartography and Statecraft," and "Cartography and Religion." The conference organizers invite the submissions of 250 word proposals for paper and poster presentations by **1 September 1992**. For further information about submission procedures and conference registration contact James R. Akerman, The Newberry Library, 60 West Walton Street, Chicago, IL 60610-3380.

The **5th International Congress for the History of Oceanography (ICHO V)** will be held 7-14 July 1993 at Scripps Institution of Oceanography, La Jolla, CA. Under the theme "Oceanography: The Pacific Perspective," the Congress will feature a number of symposia with a Pacific emphasis. Congress co-chairs are Fritz Rehbock, Department of History, University of Hawaii, Honolulu, HI 96822; and Keith R. Benson, Department of Medical History and Ethics, School of Medicine, University of Washington, Seattle, WA 98195. For a copy of the first circular, write the local arrangements chair, Deborah Day, Archivist, Scripps Institution of Oceanography, University of California, San Diego, La Jolla, CA 92093-0175.

Manuscripta announces that the 19th **Saint Louis Conference on Manuscript Studies** will be held 9-10 October 1992 at Saint Louis University. Participants are invited to present twenty-minute papers on codicology, illuminations, paleography, and texts. For further information concerning submissions and attendance contact the Conference Committee, *Manuscripta*, Pius XII Memorial Library, Saint Louis University, 3650 Lindell Blvd., Saint Louis, MO 63108.

The Department of Philosophy of the Université Paul Valéry in Montpellier, France, has announced preliminary plans for a conference, **Ordre Biologique, Ordre Technologique**, to be held in at the University, 16-28 November 1992. For further information contact Franck Tinland, Centre de Recherche et

THE
CAPITAL HILTON

16th & K St. N.W., Washington D.C. 20036 202-393-1000
Return Reservation Fax# 202-639-5725

History of Science Society
Annual Meeting, 27-30 December 1992

After November 27, 1992 guest room and rate availability may be restricted.

Name _____

Company Name _____

City _____ State _____ Zip _____ Telephone# _____

Arrival Date _____ Arrival Time _____ Departure Date _____

Rooms will be held until 6:00 p.m. on the arrival date unless guaranteed by credit card or advance deposit. Check out time is 12:00 noon. Check in time after 3:00 p.m. Should the room type and rate you requested not be available, the next available rate will be assigned.

H # _____

PLEASE CIRCLE ROOM/RATE DESIRED (SUITES AVAILABLE UPON REQUEST)

Single: \$75. Double or Twin (specify): \$85. Add'l person: +\$20.

Towers (sgl. or dbl.): \$225* Mini-suite: \$275** Suite: \$425 (1 BR), \$525 (2BR)
*complementary breakfast, afternoon tea, evening hors d'oeuvres **bedroom and sitting room area

FOR GUARANTEED RESERVATIONS ONLY

If this reservation is not cancelled by 6:00 p.m. and I do not occupy the indicated accommodations, I authorize billing to my

American Express Diners Club Carte Blanche VISA MasterCard.

Signature _____

Credit Card# _____ Expiration Date _____

ALL RATES SUBJECT TO SALES TAX currently, 11%, and \$1.50 OCCUPANCY TAX

SMOKING NON-SMOKING (limited number available)

Return to:

THE CAPITAL HILTON, Att: Reservations Manager, 16th & K Streets, N.W.
Washington, DC 20036-5794

d'Analyses sur Technique, Université
Paul Valéry, Route de Mende, Bateau
B113, 34032 Montpellier Cedex, France;
telephone 67.14.20.00; fax 67.14.22.19.

The Science of Pacific Island Peoples
Conference, will be held 5-12 July 1992
at Suva, Fiji, under the sponsorship of the
University of the South Pacific and the
Government of France. Suggested
themes include "Traditional Science and
Technology in the Pacific," "The Impact
of External Contact on Pacific Science,"
"Modern Value of Traditional Knowl-
edge," and "Science Policy and Tradi-
tional Science." For further information
contact E. W. Williams, University of the

South Pacific, P.O. Box 1168, Suva, Fiji;
fax (from North America) 011/679/300-
830.

The 39th annual Star Island Conference
of the Institute on Religion in an Age of
Science, 25 July to 1 August 1992, will
address "Global Ecology and Human
Destiny." For further information contact
Karl E. Peters, *Zygon*, Journal of
Religion and Science, Chicago Center for
Religion and Science, 1100 East 55th
Street, Chicago, IL 60615-5199; (312)
753-0671.

RECENTLY COMPLETED DISSERTATIONS

Frank R. Freeman, "Medical Care
during the American Civil War," Univer-
sity of Illinois, Urbana-Champaign.,
1992.

Susan M. Mooney, "The Evolution of
Sex: A Historical and Philosophical
Analysis," Boston University, 1992.

Eugene Taylor, "Psychology as a
Person-Centered Science; William
James after 1890," Boston University,
1992.

Karin Wetmore, "The Evolution of
Psychology from Moral Philosophy in
the 19th Century American College
Curriculum," University of Chicago,
1992.

FELLOWSHIPS & GRANTS AVAILABLE

The Beckman Center for the History of Chemistry sponsors a travel grant program for individuals conducting research in the history of chemistry and chemical technology, offering researchers the opportunity to use the Center's resources in Philadelphia. Grants of up to \$500 may be applied to travel, subsistence and photoduplication. Applications should include a vita, a one-paragraph statement on the research proposed, a budget, and the addresses and telephone numbers of two references, and should be submitted to Lisa A. Kazanjian, Beckman Center for the History of Chemistry, 3401 Walnut Street, Suite 460B, Philadelphia, PA 19104-6228; (215) 898-4896; fax (215) 898-3327. Deadlines: **1 February** for April-June grants; **1 May** for July-September grants; **1 August** for October-December grants; and **1 November** for January-March grants.

The **Edelstein International Studentship** is available for dissertation research and writing in the history of the chemical sciences and technologies, providing a stipend and travel and dissertation fee support for a five-to-six month stay at the University of Pennsylvania (and the Beckman Center for the History of Chemistry) and a three-to-four month stay at the Hebrew University of Jerusalem (and the Edelstein Library) during the course of an academic year. Candidates should have fulfilled all requirements for the Ph.D., except the dissertation, and (for 1993-94) should submit applications by **31 October 1992** to Seymour H. Mauskopf, Department of History, Duke University, Durham, NC 27706; (919) 684-3014. Applications should include a dissertation prospectus, a brief statement of research and writing plans for the year of the Studentship, a curriculum vitae, and the names and telephone numbers of two referees.

Applications are now being accepted from established scholars for the 1993-94 **Edelstein International Fellowship in the History of Chemical Sciences and Technology**. The Fellow will divide his or her time (from 1 September 1993 to 30 June 1994) between the Beckman Center for the History of Chemistry in Philadel-

phia and the Edelstein Center for History and Philosophy of Science, Technology and Medicine in Jerusalem, and may be combined with other research or sabbatical support. The Fellow will devote the major portion of his or her time to research, and will also contribute to the work of each Center in an appropriate manner. A travel allowance is also available. Letters of application should indicate how the resources of the Beckman Center and the Edelstein Collection are relevant to the applicant's research, and should also enclose a financial statement, a curriculum vitae, and the names and addresses of three referees. Applications should be received by **31 October 1992** by Seymour H. Mauskopf, Department of History, Duke University, Durham, NC 27706; (919) 684-3014.

The School of Historical Studies, **Institute for Advanced Study**, Princeton, offers research fellowships and visiting memberships for periods ranging from three months to two years. Requirements, appointment details, stipends, application procedures, and deadlines vary with the program, but all require the Ph.D. (or its equivalent) and a substantial publications record. For further information and application materials contact the Administrative Officer, School of Historical Studies, Institute for Advanced Study, Princeton, NJ 08540.

The **Reference Materials Program of the National Endowment for the Humanities** supports two kinds of projects. The first produce reference works designed to improve access to information and resources; for example, dictionaries, historical or linguistic atlases, encyclopedias, concordances, reference grammars, databases, text bases, and other essential scholarly tools for the advancement of research or for general reference purposes. The second assist scholars and researchers locate information about humanities documentation, and lead to scholarly guides—such as bibliographies, bibliographic databases, catalogues raisonnés, other descriptive catalogues, indexes, union lists, and similar works—that enable

researchers to determine the usefulness or relevance of specific materials. In both areas, support is also available for projects that address important issues related to the design or accessibility of reference works. The deadline is **1 September 1992**, for projects beginning after 1 July 1993. For additional information, contact the Reference Materials Program, National Endowment for the Humanities, Washington, DC 20506.

The **Humanities, Science and Technology** program of the **National Endowment for the Humanities** awards grants (to individuals and institutions) to support research that brings to bear the knowledge, methods, and perspectives of the humanities on the subjects of science, technology, or medicine. Historical studies and studies of current topics are eligible. However, studies of current science, technology, or medicine must deal with fundamental issues in the humanities. Grants from this program support projects that, because of their intellectual scope and consequent size, duration, or complexity, cannot be accomplished through individual one-year fellowships. Applicants may thus request support for full or part-time salaries, travel, and other costs of conducting research for periods of from one to three years. For additional information and application materials contact Daniel P. Jones, Program Officer for Humanities, Science and Technology, National Endowment for the Humanities, Washington, DC 20506; (202) 786-0210. The next deadline for receipt of applications is **15 October 1992**.

The **National Humanities Center** offers 35-40 academic year post-doctoral residential fellowships for advanced study to "senior scholars of recognized accomplishment" and to promising young scholars, who should be no more than ten years beyond the completion of graduate study and should be engaged in research beyond the revision of their dissertations. Applications for 1993-94 must be received by **15 October 1992**. For further information and application material contact the Fellowship Program, National Humanities Center, P.O. Box 12256, Research Triangle Park, NC 27709-2256; (919) 549-0661.



**Smithsonian Institution Libraries/
Dibner Library
1993 Resident Scholar Program**

To encourage study of the history of science and technology, the Smithsonian Institution Libraries offers short-term study grants for 1-3 months to do research in the Dibner Library of the History of Science and Technology and other library collections of the Smithsonian. The program is open to historians, librarians, bibliographers, and pre- and postdoctoral students. Stipend: \$1,500/month, to be used for any related purpose, including travel to Washington, D.C. For guidelines and application forms, write to Resident Scholar Program, Smithsonian Institution Libraries, NHB 24, Mail Stop 154, Washington, D.C. 20560. Program support is from The Dibner Fund.

DEADLINE FOR PROPOSALS: NOVEMBER 2, 1992

The DeWitt Stetten, Jr. Museum of Medical Research at the National Institutes of Health invites applications for its Stetten Memorial Fellowship in the history of 20th-century biomedical sciences and/or technology, to be inaugurated in July 1993. The fellowship will support either one year of dissertation research or up to one full year of postdoctoral work for a fellow in residence at the museum. The annual stipend will range from \$12,000-17,000 for a predoctoral appointment and from \$25,000-28,000 for a postdoctoral appointment. Deadline for submissions is 15 December 1992. For further information and application materials, contact: Victoria A. Harden, Director, DeWitt Stetten, Jr. Museum of Medical Research, Bldg. 31 Room 2B09, National Institutes of Health, Bethesda, MD 20892; e-mail VH2@CU.NIH.GOV.

POSITIONS

This list presents all announcements of job searches brought to the Society's attention, including (at times) paid insertions. Notices are drawn (and often condensed) from many sources and (for positions in the U.S., Canada and

Australia) usually include affirmative action statements or their equivalent. The Society cannot assume any responsibility for the accuracy of any listing, and potential applicants should triple-check all details, *especially closing dates*.

The American Institute of Physics seeks an Archivist (beginning September 1992) to assist in planning and implementing an accelerated records management program, prior to relocation, and to participate in a wide variety of archival and library tasks. Qualifications: MLS or MA with courses in archival management or equivalent in archives work; minimum of two-years post degree or professional experience; willingness to relocate to College Park, MD (near Washington, DC) in late 1993. Some training or experience in records management preferred; scientific background not required. Salary \$30,000-\$35,000, depending on experience, and "relocation reimbursement." Submit resume and letter of application to Joan Warnow-Blewett, Associate Director, Center for History of Physics, American Institute of Physics, 335 East 45th Street, New York, NY 10017; telephone (212) 661-9404, ext. 547; fax (212) 986-5334.

California Institute of Technology announces a half-time (20 hour) one-year renewable Research Assistantship to begin around 1 September 1992. The Assistant will help with diverse projects in the history of science since the late nineteenth century, which span the history of modern biology, environmentalism, and science-related issues in public policy. Applicants need not have competence in all these fields but should be willing to learn about them on the job. The post is particularly suitable for someone writing his or her dissertation, but scholars at other stages of their careers will be considered. Stipend: \$16,000 per annum plus standard benefits. Applicants should send a description of expertise and interests as well as a graduate transcript and at least one letter of recommendation to Daniel J. Kevles, Division of Humanities and Social Sciences, California Institute of Technology, Pasadena, CA 91125; fax (818) 405-9841.

Duke University seeks M.D.-Ph.D. medical historians with Ph.D. (or A.B.D.) in history of medicine or history of the life sciences and M.D. with board certification in a clinical specialty, for

tenure-track assistant or associate professorships (initially without tenure), with primary appointment in the Department of History, and secondary appointment in a clinical-specialty department. Matters of appointment, promotion, and tenure will be based on teaching and research in medical history. The appointees will join Duke's two current medical historians and the Duke-University of North Carolina Program in History of Science, Medicine, and Technology, and are expected to earn half their compensation from clinical practice. Application Review will begin **1 May 1992** and continue until the positions are filled. Applicants should submit Curriculum Vitae and three letters of recommendation to Peter C. English, Box 3675, Duke University Medical Center, Durham, NC 27710.

The University of Melbourne invites applications for a **continuing lectureship/senior lectureship** in the Department of History and Philosophy of Science to begin 1 January 1993. Applicants should have a higher degree; preference will be given to those with active teaching and research experience in social studies of contemporary science and technology and/or in social theoretic and philosophical views of technology and social change. The successful applicant will develop and teach undergraduate courses for both Arts and Science students in this area, will supervise postgraduate students from a wide range of professional backgrounds, and, initially, will serve as Director of the M.A. and M.Sc. in Science in Society, course-work programmes that together have an enrollment of approximately 50 students. Salary will be in the range of \$A 39,463 to \$ 47,150 (Lecturer) or \$A 48,688 to \$ 55,000 (Senior Lecturer). Information regarding the Department, including details of current teaching and research, are available from the Head of Department, Homer E. Le Grand, telephone (from North America) 011/61/3/344-7570; fax (from North America) 011/61/3/344-7959. Applications (quoting Position Number 136033) with names and addresses of three referees should be addressed in duplicate to The Director, Personnel Services, the University of Melbourne, Parkville, Victoria 3052 and should arrive by **15 August**

1992. Referees should include the reference number for this position on their letters of recommendation and submit them by the same date.

POSITIONS (FOR THE RECORD)

Announcements of position openings brought to the Society's attention between deadlines for issues of the *HSS Newsletter* are posted as they are received on *HSSJOBS*, an electronic bulletin board accessible via the Internet Anonymous File Transfer Protocol (FTP) at WPI.WPI.Edu. Procedures for gaining access to FTP vary from site to site, and potential users should consult their institutions' own network managers for appropriate instructions. When time and volume permit, the Executive Secretary's Office distributes lists of such positions to all North American programs in the history of science, technology, and medicine, and to all individuals who ask to receive them. Those interested in receiving such lists should contact the Executive Secretary's Office.

Armstrong State College sought a "Technological/Economic Historian" (with interest in transportation, maritime, agricultural history) to fill a one-year appointment. The search closed on 15 May 1992. For further information contact Department of History, Armstrong State College, 11935 Abercorn Street, Savannah, GA 31419.

The Science and Technology Studies section of the Humanities Programme of Imperial College of Science, Technology and Medicine sought a Lecturer in History of Science, to have "prime responsibility for the flourishing M.Sc. course in the History of Science, Technology, and Medicine, run jointly with University College." The search closed on 6 May 1992. For further information contact Bryan Coles, Humanities Programme, 446 Sherfield Building, Imperial College, London SW7 2AZ; telephone (from North America) 011/44/71/589-5111, ext. 7060; fax (from North America) 011/44/71/581-3689.

The National Endowment for the Humanities sought Program Officers for its Division of Education Programs to oversee a variety of fields and projects in its Higher Education in the Humanities Program, and especially sought candidates with expertise in (among

other areas) history or philosophy of science. The search closed on 20 May 1992. For further information contact Lyn Maxwell White, Assistant Director for Higher Education, Division of Education Programs, National Endowment for the Humanities, 1100 Pennsylvania Avenue, NW, Washington, DC 20506.

The University of Rhode Island Department of History sought a one-year (1992-93) lecturer to teach early modern or medieval Europe with specialization in History of Science. The search closed on 22 May 1992. For further information contact J. Morton Briggs, Department of History, University of Rhode Island, Box G, Kingston, RI 02881.

The Tamaki Campus of the University of Auckland (to open in 1993) sought historians to teach (among others) courses entitled "Invention, Science and Society." The search closed on 29 May 1992. For further information contact the Assistant Registrar, Academic Appointments, University of Auckland, telephone (from North America) 011/64/9/373-7599, extensions 5789/5790; fax (from North America) 011/64/9/373-7454.

RESEARCH OPPORTUNITIES

The NASA History Division has recently issued two NASA Research Announcements (NRAs) soliciting proposals for research. NRA 92-ADA-2-2 (proposal deadline **15 August 1992**) calls for a **Planetary Astronomy History Project** for "research in the history of ground- and space-based equipment to obtain scientific data about the planets and satellites of the universe." NRA 92-ADA-2-4 (proposal deadline **31 August 1992**) calls for a project on the **History of Space and the American Imagination** for "research in the broad history of the love affair of the United States with space travel from its earliest consideration in science fiction to the present." Potential respondents to either or both should request as soon as possible [from Patricia Shepard, Code ADA-2, NASA Headquarters, Washington, DC 20546; (202) 453-8300] copies of the appropriate NRAs, which "provide technical and project information ... and guidelines for responding" to them.

RECENT FELLOWSHIPS & GRANTS

Recipients of American Institute of the History of Pharmacy grants-in-aid toward thesis expenses include *Elizabeth E. Hunt* (Univ. of Pennsylvania) for "Out of the Mouths of Babes: Making and Marketing Crest Toothpaste"; *Marcia L. Meldrum* (State Univ. of New York) for "The History of the Randomized Clinical Trial, 1946-1969"; and *William B. McAllister* (Univ. of Virginia) for "The History of International Efforts to Control Licit and Illicit Drugs."

Recent recipients **John Simon Guggenheim Foundation Fellowships** include *James S. Ackerman* (Harvard Univ.) for "A Study of Classicism"; *Richard W. Burkhardt, Jr.* (Univ. of Illinois) for "The Emergence of Ethology as a Scientific Discipline"; *Gale E. Christianson* (Indiana State Univ.), for "A Biography of Edwin P. Hubble"; *Jan Goldstein* (Univ. of Chicago), for "Psychology and Selfhood in 19th-Century France"; *Israel Rosenfield* (John Jay College, City Univ. of New York) for "Explanation and Prediction in the Neurosciences"; and *Thomas P. Slaughter* (Rutgers Univ.) for "The Bartrams and the American Enlightenment."

The School of Social Science of the Institute for Advanced Study recently

appointed 16 Members and 6 Visitors for 1992-93. These individuals, their home institutions, and their projects include: *Diana Barkan* (California Institute of Technology), "The Anxiety of Influence and Scientific Transcendence"; *Stephen G. Brush* (Univ. of Maryland), "Dynamics of Theory-Change in Science"; *Stephen Cole* (State Univ. of New York, Stony Brook), "Social Influence on the Evaluation of Scientific Knowledge"; *Walter Jackson* (North Carolina State Univ.) "American Intellectuals and the Civil Rights Movement, 1954-1968"; *Doris Kaufmann* (Technische Universität Berlin), "Enlightenment, Bourgeois Identity, and the Invention of Psychiatry in Germany, 1770-1840"; *Karin Knorr-Cetina* (Univ. of Bielefeld) "Epistemic Cultures"; *Larry Laudan* (Univ. of Hawaii), "The Crisis of Empiricism: The History, Current State and Provenance of the Argument from Underdetermination"; *Rachel Laudan* (Univ. of Hawaii), "Arguing the Case for Science: History of Scientific Progress 1750-1950"; *Emily Martin* (Johns Hopkins Univ.), "Flexible Bodies: An Ethnography of Culture, Science, and Power in the U.S."; *George Stocking*, (Univ. of Chicago), "On the Ground of Otherness: Toward a History of Anthropology through Ethnographic Fieldwork."

Recent recipients of long-term grants from the International Research and

Exchanges Board (IREX) for study the former Soviet Union include: *Robert Heilbroner* (Univ. of Michigan), at the Institute of the History of Science and Technology, State Oblast' Arch., Odessa, for "Envisioning Science: Russian Scientists and Their Missions"; and *Edward Jurkowitz* (Univ. of Toronto), at the Institute of the History of Science and Technology, the Kharkov Physico-tech. Institute, and the St. Petersburg Physico-tech. Institute, for "History of Superconductivity and Superfluidity in the Soviet Union, 1925-1960."

Recipients of fellowships for 1992-93 at the National Humanities Center include *George P. Bealer* (Univ. of Colorado), for "Philosophical Limits of Science," and *Robert W. Smith* (Johns Hopkins Univ.), for "The History of Large Scale Scientific Enterprises".

Recipients of recently awarded National Science Foundation Fellowships for Graduate Study in history of science include *Jessica Jera Pfeifer* (Wesleyan Univ.), *Glen Michael Cooper* (Brigham Young Univ.), *Hunter Ashley Heyck* (Univ. of North Carolina), *Katherine Ann Bedard* (Wellesley College) *Sean Armel Kelsey* (Thomas Aquinas), *David Avram Mindell* (Yale Univ.), and *Andrea L. Murschel* (Lawrence Univ.).

AWARDS, HONORS, & APPOINTMENTS

Leo L. Beranek (Bolt Beranek and Newman) has been reelected President of the American Academy of Arts and Science. Newly elected Fellows of the Academy include **George S. Boolos** (MIT), **Jonthan R. Cole** (Columbia Univ.), **W. Robert Connor** (National Humanities Center), **John H. D'Arms** (Univ. of Michigan), **Peter L. Galison** (Stanford Univ.), **David L. Hull** (Northwestern Univ.), **Christopher Jencks** (Northwestern Univ.), **Jane M. Oppenheimer** (Bryn Mawr College), **Donna E. Shalala** (Univ. of Wisconsin-Madison), **Adele Smith Simons** (MacArthur Foundation), and **Rosemary A. Stevens** (Univ. of Pennsylvania).

Newly elected Fellows of the American Association for the Advancement

of Science include **Alan D. Beyerchen** (Ohio State Univ.), **Edward M. Constanant, II** (Carnegie Mellon Univ.), and **Paul Kurtz**.

Winners of the 1991 Austrian Cultural Institute Prizes are **Helmut Gruber**, for *Red Vienna. Experiment in Working-Class Culture 1919-1934* (Oxford Univ. Press), and **Joseph Francis Patrouch, III**, for *Methods of Cultural Manipulation: The Counter-Reformation in the Habsburg Province of Upper Austria, 1570-1650* (Ph.D. dissertation, Univ. of California, Berkeley).

Kostas Gavroglu (National Technical Univ. of Athens) has been awarded the 1992-93 Edelstein International Fellowship in the History of Chemical Sciences

and Technology, for research at the Beckman Center for the History of Chemistry in Philadelphia and to the Edelstein Center for History and Philosophy of Science, Technology, and Medicine in Jerusalem.

Marta E. Hanson (Univ. of Pennsylvania) has been awarded the 1992 Jerry Stannard Memorial Award for her essay, "Why Were Chinese *Materia Medica* (pen-ts'ao) Written?"

David A. Hollinger has received the University of Michigan's Distinguished Faculty Achievement Award, has been elected to membership in the Society for American Historians, and has been appointed Professor of History at the University of California, Berkeley.

John Dillard Hunley has been appointed a historian in the NASA History Division.

Melvin Kranzberg (Georgia Institute of Technology) has been named the first Honorary Lifetime Member of the National Association for Science, Technology, and Society.

Edward J. Larson has been awarded the 1992 Richard B. Russell Undergraduate Teaching Award from the University of Georgia.

Joint recipients of the 1992 John Nicholas Brown Prize of the Medieval Academy of America for an outstanding first book in the field of medieval studies are Carole Straw (Mount Holyoke College), for *Gregory the Great: Perfection in Imperfection* (California, 1988), and Katherine H. Tachau (Univ. of Iowa), for *Vision and Certitude in the Age of Ockham: Optics, Epistemology, and the Foundations of Semantics, 1250-1345* (Brill, 1988).

Robert A. Nye has been named George Lynn Cross Research Professor at the University of Oklahoma. He and Mary Jo Nye are the first married faculty members to hold University of Oklahoma Research Professorships simultaneously.

Wojciech Roeske of Krakow, Poland, has been awarded the 1992 George Urdang Medal of the American Institute of the History of Pharmacy for his *Bibliography of Polish Pharmaceutical Historiography, 1816-1971* (Warsaw, 1973).

William A. S. Sarjeant has received the History of Geology Award of the Division of the History of Geology of the Geological Society of America.

The Societe Physique et d'Histoire Naturele de Geneve has presented the 1992 Marc-Auguste Pictet Medal to George B. Kaufman (California State Univ., Fresno) and the 1992 Marc-Auguste Pictet Prize to Diana Barkan (California Institute of Technology).

Jeffrey K. Stine (National Museum of American History, Smithsonian Institution) has been awarded the Society for History in the Federal Government's James Madison Prize for "Environmental Politics in the American South: The Fight over the Tennessee-Tombigbee Waterway," *Environmental History Review*, 1991, 15: 1-24.

George Sweetnam (Princeton Univ.) has been awarded the American Philological Society's John Clarke Slater Fellowship for 1992-93.

A. Bowdoin Van Riper will teach in the Science, Technology and Society Program at Franklin and Marshall College in 1992-93.

DATABASES, JOURNALS, ENCYCLOPEDIAS & VIDEOTAPES

The Information Department of the Institute of the History of Natural Sciences and Technology [Institut istorii estestvoznania i tehniki (IIST)] of the Russian Academy of Sciences has begun work on a Bibliographical Computer Database containing bibliographical descriptions (in Russian, with short annotations) of books and papers on the world history of natural sciences and mathematics published in the USSR between 1917 and 1991. This database includes items listed both in the retrospective index-bibliography, *History of Natural Sciences: Literature Published in the USSR* (8 vols., 1917-80), and in the as-yet unpublished bibliography for 1981-91. The department is also planning a similar bibliographical database for the history of technology.

The database makes it possible to find out authors, titles, responsibility information, particulars on place and date of publications, serials, and key words; dictionaries of key words will be available in English, French, and German. The database will be accessible, by subscription or single request, to foreign scientists and institutions, from whom the department asks for information about their general and specific interests. More generally, the department hopes to establish contact with persons and institutions interested in organizational and financial participation in the realization of the project. For further information contact Dr. Boris Kozlov, Director, The International Center for the History of Science, Staropanskiy pereulok, 1/5,

Moscow, 103012, Russia; fax (095) 925-99-11; e-mail slava@ihst.msk.su

Work has begun on *The Encyclopedia of the History of Science, Technology and Medicine in Non-Western Cultures*, to be published by Garland Publishing. Scheduled to appear in 1995, the volume will comprise alphabetically arranged entries on all aspects of the subject and is intended to provide an overview of scholarship in this emerging field. For further information contact the editor, Helaine Selin, Science Librarian, Hampshire College, Amherst, MA 01002; e-mail HSelin@Hampshire.Hamp.Edu.

A limited number of copies of the *Guide to Historical Resources in the Atmospheric Sciences* (reviewed in *Isis*, 1991, 83: 183-84) are available free of charge from its author, James R. Fleming, Science-Technology Studies Program, Colby College, Waterville, ME 04901; (207) 872-3548.

Work is underway on *The History of*

Selections and Reflections: The Legacy of Sir Lawrence Bragg

edited by
John M. Thomas and Sir David Phillips

Including contributions by ten Nobel Laureates:

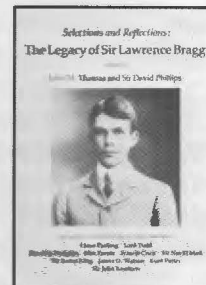
Linus Pauling • Lord Todd • Dorothy Hodgkin • Max Perutz
Francis Crick • Sir Nevill Mott • Sir Aaron Klug • James D. Watson
Lord Porter • Sir John Kendrew

"a collection of comments and reminiscences by some twenty-five distinguished contemporaries, introduced by David Phillips' masterly biographical memoir"

Professor Alan Mackay, FRS, NATURE

Price \$60 (including postage and packing)

Order from: Henchek & Associates
68 E. Wacker Place,
Suite 800
Chicago, IL 60601
Tel: / Fax: (312) 324-7719



Science in the United States: An Encyclopedia, to be published by Garland Publishing. Chronologically, the encyclopedia spans American history from the colonial period to 1990. Entries are planned on individuals, institutions, disciplines, events, political and organizational dimensions of science, relational aspects (e.g., science and literature), topics such as race and gender, and reviews of chronological periods. For further information contact the editor Clark A. Elliott, University Archives, Pusey Library, Harvard University, Cambridge, MA 02138; (617) 495-2462.

Perspectives on Science Historical, Philosophical, Social, a quarterly journal that the University of Chicago Press will begin publishing in 1993, will be devoted to studies of the sciences that integrate historical, philosophical, and sociological perspectives. Its interdisciplinary approach is intended to foster a more comprehensive understanding of the sciences and the contexts in which they develop. Its contents will include case studies and theoretical essays of a meta-historical and meta-philosophical character. The journal will foster historiographical work combining social and institutional analyses of science, as well as analyses of experiments, practices, concepts and theories. One issue per year will usually be dedicated to a single topic, with a guest editor. Manuscripts (which will be blind peer-reviewed) should be submitted to the journal's editor, Joseph C. Pitt, Department of Philosophy, Virginia Polytechnic Institute & State University, Blacksburg, VA 24061-4564. Charter subscriptions are available at 15% discounts from the regular rate—individuals, \$29.00 (regularly \$35); institutions, \$59.00 (regularly \$70); students, \$21.00 (regularly \$25)—from The University of Chicago Press, Journals Division, P.O. Box 37005, Chicago, IL 60637.

The Turkish Society for History of Science publishes a semi-annual *Newsletter* in Turkish and English, under the editorship of Feza Günergün, that presents information about the Society and the history of science and technology as practiced in Turkey, including news of recent publications, book reviews, summaries of meetings and exhibits.

Subscriptions are available for \$10.00 annually from the Turkish Society for History of Science, P.O. Box 234, 80692 Besiktas, Istanbul, Turkey.

An original collection of **Videotapes in the History of Science and Technology**, produced by Smithsonian scholars, is now open for use. The collection was produced between 1986 and 1991 with funding from the Alfred P. Sloan Foundation and guidance from the Smithsonian Videohistory Program (SVP). Eighteen Smithsonian Institution historians produced 22 projects—for over 200 hours of tape—that cover a wide range of topics in American science and

technology, primarily since the beginning of World War II. Topics include aeronautics and space exploration, computer development, medical technology, robotics, the Manhattan Project, small arms design and manufacture, slate quarrying, clockmaking, automotive manufacturing and management techniques, paleontology, and the conservation of endangered species. Tapes, transcripts, and finding aids are available for researchers, and copies are available for a fee. For further information, contact the Smithsonian Institution Archives, 2135 Arts and Industries Building, Smithsonian Institution, Washington, DC 20560; (202) 357-1420.

MEETING REPORTS

The Center for Imaging Science, University of Chicago, sponsored an centennial symposium, **Imaging the Body: Art and Science in Modern Culture** on 2-4 April 1992, which was organized by Barbara M. Stafford (Art History) and Robert N. Beck (Radiology), and complemented by three concurrent exhibitions: "Depth Studies: Illustrated Anatomies from Vesalius to Vicq d'Azyr"; "Imaging the Body: From Fragment to Total Display"; and "Metaphors of Biological Structure/ Architectural Construction." (See *HSS Newsletter*, July 1992, p. 17.)

During the symposium an international group of scholars in fields as diverse as computer modelling to legal studies, anthropology to psychiatry, investigated the historical, medical, social, and aesthetic implications of recent advances in "visualizing" the human body. Topics and speakers included: the plastic surgeon's "photographic scalpel" (David Teplica), television's complex refraction of medical information (Bruce Dan), and the role of MRI, PET, and computer modelling both in the diagnosis of disease (David Levin, Paul C. Lauterbur), as well as in the creation of benign photographs with broader societal implications, such as the prediction of aging (Lewis Sadler and Thomas A. Defanti). Multimodality imaging was also extended to the "body" of the work of art, manipulated, retouched, scanned (Alan Newman and William Leischer).



Imaging the Body, from William Cowper, *An Anatomical Treatise on the Muscles of the Human Body* (London, 1724)

The need to contextually and historically situate the activity of watching, seeing, regarding (Jonathan Prude) was also a strong theme in the paper by Ludmilla Jordanova on Charles Bell's depiction of the hand. Conversely, Roy Porter stressed the verbal dimension of eighteenth-century medicine and Sander Gilman analyzed the aniconicity of Freud. Joseph Rykwert, Thomas Sebeok, and Mihaly Csikszentmihalyi explored the psychophysiological dimension, the biosemiotic self, separate yet capable of endowing meaning to constructed things.

The body as apparatus, rooted in alchemy (Laurinda Dixon) or seen through an instrument, as in microscopy (Virginia Dawson), had late twentieth-century ramifications in the cyborg, virtual reality (N. Katherine Hayles), and the digitized animations of Hollywood (Daniel Masys).

Roger Dworkin argued against ideals of perfection that seem to dictate the brave new world of designer human beings promised by reproductive technologies and genetic research, and called for wisdom and hearing the voice of the individual. Joyce Cutler-Shaw and Anne Hollander, too, took up the concrete case of the living and dying person, and noted that there are no naked bodies without the material traces of clothes. Douglas Druick's analysis of Gauguin's "documentation" of Tahitians revealed that there were as many bodies as cultures. This experimental symposium, then, was the first step in asking what might the traditional disciplines dealing with the history of representation contribute to the modern technologies for imaging the body and vice versa. It also called for a different kind of cross-disciplinarity based on new, non-hierarchical epistemological paradigms. —Barbara M. Stafford

On 6-7 March 1992, the History of Science Department at the University of Oklahoma hosted a symposium, **Tradition, Transmission, Transformation: Ancient Mathematics in Islamic and Occidental Cultures**. The meeting was organized by Steven J. Livesey and F. Jamil Ragep, and was convened in conjunction with the Department's Rockefeller Foundation postdoctoral fellowship program. The symposium was organized around three topics. In the first session, on the transmission of mathematical work from Greek into Arabic, Sonja Brentjes (Universität Leipzig and Univ. of Oklahoma) spoke "On the Arabic Transmissions of Euclid's *Elements*," followed by Jan P. Hogendijk (Reijksuniversiteit te Utrecht), who discussed "Transmission and Transformation: The Case of Greek and Arabic Geometry." The second session focused on the transmission from Greek and Arabic into Latin and Hebrew. Included were presentations by Menso Folkerts

(Universität München), "Regiomontanus' Role in the Transmission and Transformation of Greek Mathematics," Tony Lévy (CNRS, Paris), "Hebrew Mathematics in the Middle Ages," and Warren Van Egmond (Arizona State Univ.),

"From East to West: The Sources and Streams of Arabic and European Algebra." The final session, on the cultural context of the transmission of mathematical texts, included papers by J. L. Berggren (Simon Fraser Univ.), "The Islamic Acquisition of Foreign Sciences: A Cultural Perspective," and A. George Molland (Univ. of Aberdeen and Univ. of Oklahoma), "Roger Bacon's Appropriation of Past Mathematics." The audience was drawn from colleagues and students from the University community as well as from California, the Midwest, and Pennsylvania. The symposium concluded with a reception (hosted by the University Libraries' History of Science Collection) and a banquet. The organizers gratefully acknowledge support by the Rockefeller Foundation, the University's Office for Research Administration, and the History of Science Department. —Steven J. Livesey



Participants in *Traditions, Transmission and Transformation* at the University of Oklahoma

PRIZE COMPETITIONS

The Center for Austrian Studies at the University of Minnesota annually awards **Austrian Cultural Institute Prizes** (of \$1,000 each) for the best recent book and best Ph.D. dissertation (at a North American university) in Austrian Studies. The competition for 1992 will judge works, completed by 31 January 1993, in the category "Cultural Studies," including works that deal with literature, music, art, philosophy, or science in Austria or the Habsburg lands. Authors must be residents of North America and must hold U.S., Canadian, or Austrian citizenship. Any individual may submit nominations, with two copies of each nominated work, to the Chair, Austrian Prize Committee, Center for Austrian Studies, 314 Social Sciences Building, 267 19th Avenue S., University of Minnesota, Minneapolis, MN 55455.

The **Jerry Stannard Memorial Award** (of \$250) honors the author of a published or unpublished essay dealing with

the history of *materia medica*, medicinal botany, pharmacy, or folklore of drug therapy before the year 1700. Competition for the 1993 award (to be presented on or about 15 May 1993) is open to graduate students and recipients of a doctoral degree conferred not more than three years before the competition deadline. Each entry: must be in English, French, or German; should be typewritten, double-spaced, and no longer than 50 pages, including notes, bibliography, and appendices; must be accompanied by a one-page abstract of the paper in *English*, the author's current curriculum vitae, and a letter of recommendation from an established scholar in the field; will not be returned; and must be received by **15 February 1993**. Address all manuscript correspondence to the Stannard Award Committee, Department of History, Wescoe Hall 3001, The University of Kansas, Lawrence, KS 66045-2130.

(continued from page one)

NEH Division of Education Program

and the Fund for the Improvement of Postsecondary Education—has developed a program for **Comprehensive Opportunities in Science and Humanities Education**. This program is designed to encourage and support curriculum projects in higher education that engage disciplines across the full range of the liberal arts and reveal connections among the natural sciences, the social sciences, and the humanities. Projects may concern general education or core curricula, multidisciplinary majors and minors in such fields as the history and philosophy of science, sequences of integrated courses, and senior capstone courses.

By joining in this "Comprehensive Opportunity," the three agencies hope to encourage projects that will help bridge the separation of humanities students from the sciences and of science students from the humanities. Projects may focus on an issue, a theme, or an approach that can best be addressed from a number of disciplinary perspectives. An excellent proposal would describe intellectually rigorous subject content and effective ways of teaching. It would be strong in science topics and texts, perhaps including significant laboratory and field experiences as well as appropriate mathematics. It also would make use of significant texts and topics in the humanities. It would demonstrate an awareness and knowledge of national practices, and in its institutional setting, it would be an improvement over current practices nationally. It would also have potential for replication at other institutions. For 1992, NEH, NSF, and FIPSE established joint review procedures and expect to award a total of \$1 million in grants for five to eight projects. For the years 1993-95, the partnership hopes to be able to make as many as fifteen grants annually, for a total of approximately \$2 million each year.

In 1991, the Division of Education Programs made its first awards under a similar special effort, the **Special Opportunity in Foreign Language Education**. This initiative is aimed at strengthening language instruction in the nation's schools, colleges, and universi-

ties. Among other things, support is provided for projects to redesign foreign language programs for undergraduates. These projects often involve what is called "foreign languages across the curriculum." Historians of science may find occasion to join with colleagues on their own campus to develop and offer upper-level courses in the language appropriate to the content of the course. French intellectual history, for example, might be taught in French.

Complementary to the Higher Education Program, the other major unit of Division of Education Programs is the **Elementary and Secondary Education in the Humanities Program**. The program sponsors summer institutes for teachers, collaborative projects that promote ongoing academic partnerships between schools and nearby institutions of higher education, and masterwork study projects that enable smaller groups of teachers to study with local scholars during the school year. Since all projects sponsored by this Program involve collaboration with faculty members from higher education, historians of science may be interested in applications to this program as well. Indeed, a large number of its grantees are actually colleges and universities working with school teachers to extend their knowledge of humanities disciplines.

Guidelines describing all the opportunities offered by Division of Education Programs, as well as information concerning deadlines and application instructions, are available from the Program Officer, Higher Education in the Humanities Program, Division of Education Programs, National Endowment for the Humanities, Washington, DC 20506; (202) 786-0380.

Susan Greenstein, NEH Higher Education in the Humanities Program

ISIS Books Received

Quarterly Report to 15 February 1992

(continued from April issue)

Tymieniecka, Anna-Teresa (Editor). *New Queries in Aesthetics and Metaphysics: Time, Historicity, Art, Culture, Metaphysics, the Transnatural*. Book 4: *Phenomenology in the World Fifty Years after the Death of Edmund Husserl*. (Analecta Husserliana, Vol. 37.) (Chiefly papers from the First World Congress of Phenomenology held in Santiago de Compostela, Spain, Sept. 26-Oct. 1, 1988.) xxiv + 454 pp., illus., fig., bibl., index. Published under the auspices of The World Institute for Advanced Phenomenological Research and Learning.

Dordrecht/Boston/London: Kluwer Academic Publishers, 1991. \$122, £76, Dfl 225.

Unger, Richard W. *The Art of Medieval Technology: Images of Noah the Shipbuilder*. xviii + 168 + [1] pp., illus., bibl., index. New Brunswick, N.J.: Rutgers University Press, 1991. \$45.

Utley, Stephen. *Technology and the Welfare State: The Influence of Technological Change upon the Development of Health Care in Britain and America*. x + 213 pp., tables, bibl., index. London/Boston: Unwin Hyman, 1991. \$19.95 (paper).

Voisé, Waldemar. *Le passé du futur idéal: Les moyens imaginaires*. 103 pp., illus., bibl. Warsaw: IHNOiT PAN [Instytut Historii Nauki, Oswiaty i Techniki PAN], 1991. (Paper.)

Wallbank, T. Walter; Taylor, Alastair M.; Bailkey, Nels M.; Jewsbury, George F.; Lewis, Clyde J.; Hackett, Neil J. *Civilization, Past and Present*. [xvii] + xxxii + 999 + [lxxi] pp., illus., figs., tables, maps, bibl., index. Seventh edition. New York: HarperCollins, 1992.

Weber, Samuel. *Return to Freud: Jacques Lacan's Dislocation of Psychoanalysis*. Translated by Michael Levine. (Literature, Culture, Theory, 1.) xxii + 184 pp., figs., apps., index. Cambridge/New York: Cambridge University Press, 1991. \$47.50 (cloth); \$13.95 (paper).

Wegner, Peter-Christian. *Franz Joseph Gall, 1758-1828: Studien zu Leben, Werk und Wirkung*. xii + 201 pp., illus., bibl., indexes. Hildesheim/Zurich: Georg Olms Verlag, 1991. DM 48 (paper).

Weiss, Burghard. *Zwischen Physikotheologie und Positivismus: Pierre Prevost (1751-1839) und die korpuskularkinetische Physik der Genfer Schule*. (Europäische Hochschulschriften: Reihe 3, Geschichte und ihre Hilfswissenschaften; Band 353.) 467 pp., illus., apps., bibl., index. Frankfurt am Main/Bern: Verlag Peter Lang, 1988. \$61.80 (paper).

Weisskopf, Victor. *The Joy of Insight: Passions of a Physicist*. (Alfred P. Sloan Foundation Series.) xiv + 336 pp., illus., index. New York: Basic Books, 1991. \$24.95, Can\$32.95.

Wetzel, Walter. *Naturwissenschaften und chemische Industrie in Deutschland: Voraussetzungen und Mechanismen ihres Aufstiegs im 19. Jahrhundert*. (Frankfurter historische Abhandlungen, Band 32.) 338 pp., tables, app., bibl., index. Stuttgart: Franz Steiner Verlag, 1991. DM 128 (paper).

Wheaton, Bruce R. *The Tiger and the Shark: Empirical Roots of Wave-Particle Dualism*. With a foreword by Thomas S. Kuhn. xxiv + 355 pp., illus., figs., tables, bibl., index. 1983. Paperback edition. Cambridge/New York: Cambridge University Press, 1991. \$19.95 (paper).

Wills, Christopher. *Exons, Introns, and Talking Genes: The Science Behind the Human Genome Project*. xvi + 368 pp., illus., figs., index. New York: Basic Books, 1991. \$23, Can\$31.

Wilson, Fred. *Empiricism and Darwin's Science*. (The University of Western Ontario Series in Philosophy of Science, Vol. 47.) xiv + 358 pp., figs., bibl., indexes. Dordrecht/Boston/London: Kluwer Academic Publishers, 1991. \$99, £61, Dfl 175.

Winfield, Richard Dien. *The Just Economy*. 252 pp., index. 1988. Paperback edition. New York/London: Routledge, 1990. \$14.95 (paper).

Winters, Christopher (General Editor). *International Dictionary of Anthropologists*. Compiled by Library-Anthropology Resource Group (LARG). Editorial Board: Michele Calhoun et al. (Garland Reference Library of the Social Sciences, Vol. 638.) xlii + 823 pp., bibl., index. New York/London: Garland Publishing, 1991. \$75.

Witkin, Zara. *An American Engineer in Stalin's Russia: The Memoirs of Zara Witkin, 1932-1934*. Edited with an introduction by Michael Gelb. x + 363 pp., illus., bibl., index. Berkeley/Los Angeles: University of California Press, 1991. \$29.95.

Wood, Alan (Editor). *The History of Siberia:*

From Russian Conquest to Revolution. xiv + 192 pp., figs., tables, bibl., index. London/New York: Routledge, 1991. \$49.95, Can\$62.50.

Woodward, William R.; Cohen, Robert S. (Editors). *World Views and Scientific Discipline Formation: Science Studies in the German Democratic Republic.* (Boston Studies in the Philosophy of Science, Vol. 134.) (Papers from a German-American Summer Institute, 1988.) xvi + 462 pp., illus., figs., tables, bibls., indexes. Dordrecht/Boston/London: Kluwer Academic Publishers, 1991. \$128, £77, Dfl 230.

Yavas, Mehmet S. (Editor). *Phonological Disorders in Children: Theory, Research and Practice.* viii + 182 pp., figs., tables, bibls., index. London/New York: Routledge, 1991. \$42.95, Can \$62.50.

Yearley, Steven. *The Green Case: A Sociology of Environmental Issues, Arguments, and Politics.* x + 197 pp., bibl., index. London: Harper Collins Academic, 1991. \$16.95 (paper).

Yourgrau, Palle. *The Disappearance of Time: Kurt Gödel and the Idealistic Tradition in Philosophy.* x + 182 pp., figs., bibl., index. Cambridge/New York: Cambridge University Press, 1991. \$39.50.

Zambelli, Paola. *L'ambigua natura della magia: Filosofi, streghe, riti nel Rinascimento.* (La Cultura.) xviii + 345 pp., index. Milan: Il Saggiatore, 1991. £60,000 (paper).

ISIS Books Received

Quarterly Report to 15 May 1992

Abbi, Ferdinando. *Science de l'air: Studi su Felice Fontana.* 110 pp., apps., index. Cosenza: Edizioni Brenner, 1991. L20,000 (paper).

Acheson, Roy M. *Wickliffe Rose of the Rockefeller Foundation: 1862-1914, The Formative Years.* viii + 99 pp., illus., bibl., index. Cambridge: Killycarn Press, 1992. \$17.50, £12.50 (paper).

Ahmad, Imad-ad-Dean. *Signs in the Heavens: A Muslim Astronomer's Perspective on Religion and Science.* xviii + 174 pp., illus., bibl., index. Beltsville, Md.: Writers' Inc. - International, 1992. \$12 (paper).

Ahrens, Edward H., Jr. *The Crisis in Clinical Research: Overcoming Institutional Obstacles.* x + 236 pp., figs., tables, bibl., index. New York/Oxford: Oxford University Press, 1992. \$29.95.

Alchon, Suzanne Austin. *Native Society and Disease in Colonial Ecuador.* (Cambridge Latin American Studies, 71.) x + 151 pp., figs., tables, bibl., index. Cambridge/New York: Cambridge University Press, 1991. \$39.95.

Anderson, R. G. W.; Burnett, J.; Gee, B. *Handlist of Scientific Instrument-Makers' Trade Catalogues, 1600-1914.* (National Museums of Scotland Information Series, No. 8.) viii + 100 pp., bibl., index. Edinburgh: National Museums of Scotland, in association with The Science Museum, 1990. (Paper.)

Apple, Rima D. (Editor). *Women, Health, and Medicine in America: A Historical Handbook.* xxii + 572 pp., illus., tables, bibl., index. 1990. Paperback reprint. New Brunswick, N.J.: Rutgers University Press, 1992. \$14.95 (paper).

Aristotle. *History of Animals, Books VII-X.* Edited and translated by D. M. Balme. Prepared for publication by Allan Gotthelf. (Loeb

Classical Library, 439; Aristotle XI.) x + 605 pp., app., index. Cambridge, Mass./London: Harvard University Press, 1991. \$15.50.

Barkan, Elazar. *The Retreat of Scientific Racism: Changing Concepts of Race in Britain and the United States between the World Wars.* xiv + 381 pp., bibl., index. Cambridge/New York: Cambridge University Press, 1992. \$49.50.

Bates, Barbara. *Bargaining for Life: A Social History of Tuberculosis, 1876-1938.* (Studies in Health, Illness, and Caregiving in America.) xii + 435 pp., illus., figs., tables, bibl., index. Philadelphia: University of Pennsylvania Press, 1992. \$45.95 (cloth); \$19.95 (paper).

Bauer, Henry H. *Scientific Literacy and the Myth of the Scientific Method.* x + 180 pp., illus., figs., table, index. Urbana/Chicago: University of Illinois Press, 1992. \$24.95.

Becquemont, Daniel. *Darwin, darwinisme, évolutionnisme.*; 341 + [xiii] pp., figs., table, bibl., index. Paris: Éditions Kimé, publié avec le concours du Conseil Scientifique de l'Université de Lille III, 1992. Fr 200 (paper).

Bell, Leland V. *Mental and Social Disorder in Sub-Saharan Africa: The Case of Sierra Leone, 1787-1990.* (Contributions in Afro-American and African Studies, No. 147.) xiv + 206 pp., index. New York/Westport, Conn.: Greenwood Press, 1991. \$45.

Berkeley, George. *De Motu and The Analyst: A Modern Edition, with Introductions and Commentary.* Edited and translated by Douglas M. Jesseph. (The New Synthese Historical Library, Vol. 41.) xii + 230 pp., figs., bibls., indexes. Dordrecht/Boston/London: Kluwer Academic Publishers, 1992. \$86, £51, Dfl 150.

Bernabeu Mestre, Josep; Olagüe de Ros, Guillermo; Peiró Cabrera, Glòria. *Catàlog del fons científic (segles XVI-XVIII) de la biblioteca "Fernando de Loaces," Oriola.* (Ciencia, 5.) 417 pp., bibls., indexes. València: Edicions Alfons el Magnànim; Institució Valenciana d'Estudis i Investigació; Institut de Cultura Juan Gil-Albert, 1991. (Paper.)

Bernal, Martin. *Black Athena: The Afroasiatic Roots of Classical Civilization.* Volume 1: *The Fabrication of Ancient Greece, 1785-1985.* xxxii + 575 pp., figs., bibls., index. New Brunswick, N.J.: Rutgers University Press, 1987. \$50 (cloth); \$15 (paper).

Berselli, Aldo (Editor). *Editoria e Università Bologna tra Ottocento e Novecento.* (Collana Convegni e Colloqui, Nuova Serie, 15.) (Atti del 5o Convegno, Bologna, 26-27 gennaio 1990.) 372 pp., fig., tables, indexes. Bologna: Comune di Bologna; Istituto per la Storia di Bologna, 1991. (Paper.)

Bialas, Volker (Editor). *Naturgesetzlichkeit und Kosmologie in der Geschichte: Festschrift für Ulrich Grigull.* (Boethius, Band 29.) 115 pp., bibls. Stuttgart: Franz Steiner Verlag, 1992. DM 48 (paper).

Blay, Michel. *La naissance de la mécanique*

analytique: La science du mouvement au tournant des XVIIe et XVIIIe siècles. Préface de Jacques Merleau-Ponty. (Bibliothèque d'histoire des sciences.) 414 pp., figs., apps., bibl., index. Paris: Presses Universitaires de France, 1992. (Publié avec le concours du Centre national des lettres.) Fr 315 (paper).

Blum, Rudolf. *Kallimachos: The Alexandrian Library and the Origins of Bibliography.* Translated from the German by Hans H. Wellisch. (Wisconsin Studies in Classics.) xii + 282 pp., bibl., indexes. Madison/London: University of Wisconsin Press, 1991. \$37.50.

Bodson, Liliane (Editor). *Contributions à l'histoire de la domestication.* Avec la collaboration de Roland Libois. (Journée d'étude, Université de Liège, 2 mars 1991.) (Colloques d'histoire des connaissances zoologiques, Vol. 3.) vi + 106 pp., illus., figs., tables, bibls., index. Liège: Université de Liège, 1992. 500 BFr (paper).

Borst, Arno. *Medieval Worlds: Barbarians, Heretics, and Artists in the Middle Ages.* Translated by Eric Hansen. xiv + 273 pp., bibl., index. Chicago: University of Chicago Press; Cambridge: Polity Press, 1992. \$39.95.

Bottéro, Jean. *Mesopotamia: Writing, Reasoning, and the Gods.* Translated by Zainab Bahrani and Marc Van De Mieroop. xiv + 311 pp., illus., figs., bibl., index. Chicago/London: University of Chicago Press, 1992. \$39.95.

Bourriau, Janine. *Understanding Catastrophe.* (The Darwin College Lectures.) 213 pp., illus., figs., index. Cambridge/New York: Cambridge University Press, 1992. \$29.95.

Bowen, Alan C. (Editor). *Science and Philosophy in Classical Greece.* (Sources and Studies in the History and Philosophy of Classical Science, 2.) (Essays derived from a conference held by the Institute for Research in Classical Philosophy and Science, 1986.) xviii + 329 pp., figs., bibl., indexes. New York/London: Garland Publishing Inc., 1991. \$58.

Bowler, Peter J. *The Invention of Progress: The Victorians and the Past.* xii + 231 pp., illus., bibl., index. Oxford/Cambridge, Mass.: Basil Blackwell, 1989. \$41.95.

B-P-H/S: Botanico-Periodicum-Huntianum/ Supplementum. Compiler and editor: Gavin D. R. Bridson. Editorial assistant: Elizabeth R. Smith. 1068 pp., apps. Pittsburgh: Hunt Institute for Botanical Documentation, 1991. \$95.

Brezinka, Wolfgang. *Philosophy of Educational Knowledge: An Introduction to the Foundations of Science of Education, Philosophy of Education and Practical Pedagogics.* (Philosophy and Education, Vol. 3.) xvi + 301 pp., bibl., indexes. Dordrecht/Boston/London: Kluwer Academic Publishers, 1992. \$99, £61, Dfl 180.

Brown, R. Hanbury. *Boffin: A Personal Story of the Early Days of Radar, Radio Astronomy and Quantum Optics.* 184 pp., illus.,

figs., index. Bristol, Engl./New York: Adam Hilger, 1991. \$35.

Bynum, W. F.; Porter, Roy (Editors). *Living and Dying in London.* (Medical History, Supplement No. 11.) xviii + 151 pp., illus., figs., tables, app., index. London: Wellcome Institute for the History of Medicine, 1991. (Distributed by Professional and Scientific Publications, London.) £18 (U.K. and Eire); £21, \$33 (overseas).

Cadeddu, Antonio. *Dal mito alla storia: Biologia e medicina in Pasteur.* (Collana di Filosofia, 47.) 296 pp., bibl. Milan: FiniscoAngeli, 1991. L 32,000 (paper).

Cahn, Michael. *Der Druck des Wissens: Geschichte und Medium der wissenschaftlichen Publikation.* (Ausstellungskataloge SBPK Berlin, Nr. 41.) (Ausstellung: 16. Juli bis 31. August 1991.) 76 pp., bibl. Berlin: Staatsbibliothek Preussischer Kulturbesitz, 1991. (Verkauf über den Buchhandel: Dr. Ludwig Reichert Verlag, Wiesbaden.) DM 24 (paper).

Campbell, Sheila; Hall, Bert; Klausner, David (Editors). *Health, Disease and Healing in Medieval Culture.* xxiv + 204 pp., illus., figs., apps., index. New York: St. Martin's Press, 1992. \$59.95.

Cantelon, Philip L.; Hewlett, Richard G.; Williams, Robert C. (Editors). *The American Atom: A Documentary History of Nuclear Policies from the Discovery of Fission to the Present.* xviii + 369 pp., index. Second edition. Philadelphia: University of Pennsylvania Press, 1991. \$39.95 (cloth); \$16.95 (paper).

Cantor, Geoffrey. *Michael Faraday: Sandemanian and Scientist: A Study of Science and Religion in the Nineteenth Century.* xii + 359 pp., illus., figs., apps., index. New York: St. Martin's Press, 1991. \$45.

Carlson, W. Bernard. *Innovation as a Social Process: Elihu Thomson and the Rise of General Electric, 1870-1900.* (Studies in Economic History and Policy: The United States in the Twentieth Century.) xxii + 377 pp., illus., figs., tables, index. Cambridge/New York: Cambridge University Press, 1991. \$44.50.

Carrithers, Gale H., Jr. Munford, Tate, Eiseley. *Watchers in the Night.* xvi + 304 pp., bibl., index. Baton Rouge/London: Louisiana State University Press, 1991. \$29.95.

Chertok, Léon; Stengers, Isabelle. *A Critique of Psychoanalytic Reason: Hypnosis as a Scientific Problem from Lavoisier to Lacan.* Translated by Martha Noel Evans in collaboration with the authors. xxviii + 319 pp., bibl., index. Stanford, Calif.: Stanford University Press, 1992. \$35.

Coffa, J. Alberto. *The Semantic Tradition from Kant to Carnap: To the Vienna Station.* Edited by Linda Wessels. xii + 445 pp., bibl., index. Cambridge/New York: Cambridge University Press, 1991. \$49.50.

Coffin, David R. *Gardens and Gardening in*

Papal Rome. xiv + 285 pp., illus., apps., bibl., index. Princeton, N.J.: Princeton University Press, 1991. \$59.50.

Cotkin, George. *Reluctant Modernism: American Thought and Culture, 1880-1900.* (Twayne's American Thought and Culture Series.) xvi + 188 pp., illus., index. New York: Twayne Publishers; Toronto: Maxwell Macmillan Canada; New York/Oxford: Maxwell Macmillan International, 1992. \$28.95 (cloth); \$12.95 (paper).

Craven, Kenneth. *Jonathan Swift and the Millennium of Madness: The Information Age in Swift's A Tale of a Tub.* (Brill's Studies in Intellectual History, Vol. 30.) xiv + 238 pp., frontis., bibl., index. Leiden/New York: E. J. Brill, 1992. Dfl 120.

Crawford, Elisabeth. *Nationalism and Internationalism in Science, 1880-1939: Four Studies of the Nobel Population.* xii + 157 pp., figs., tables, index. Cambridge/New York: Cambridge University Press, 1992. \$44.95.

Cronin, Helena. *The Ant and the Peacock: Altruism and Sexual Selection from Darwin to Today.* xiv + 490 pp., illus., figs., bibl., index. Cambridge/New York: Cambridge University Press, 1991. \$39.95.

Darwin, Charles. *The Correspondence of Charles Darwin: Volume 7: 1858-1859. Supplement to the Correspondence, 1821-1857.* Edited by Frederick Burkhardt, Sydney Smith, Janet Browne, and Marsha Richmond. xxxviii + 671 pp., frontis., illus., tables, apps., bibl., index. Cambridge/New York: Cambridge University Press, 1991. \$59.95.

DeVries, Kelly. *Medieval Military Technology.* xii + 340 pp., illus., figs., bibl., index. Peterborough, Ont./Lewiston, N.Y.: Broadview Press, 1992. (Distributed in the U.K. by Drake Marketing Services.) \$14.95, Can\$15.95 (paper).

Djerassi, Carl. *The Pill, Pygmy Chimps, and Degas' Horse: The Autobiography of Carl Djerassi.* viii + 319 pp., illus., figs., index. New York: Basic Books, 1992. \$25, Can\$33.50.

Drago, Antonino. *Le due opzioni: Per una storia popolare della scienza.* Con un saggio di Johan Galtung. 237 pp., figs., tables. Molfetta: La Meridiana, 1991. L 26,000 (paper).

Driver, Felix; Rose, Gillian (Editors). *Nature and Science: Essays in the History of Geographical Knowledge.* (Historical Geography Research Series, No. 28.) vi + 79 pp., illus., bibl. N.p.: Historical Geography Research Group, 1992. (Paper.)

Dupleix, Scipion. *La métaphysique.* Texte revu par Roger Ariew. (Corpus des oeuvres de philosophie en langue française.) 907 pp. [Paris]: Fayard, 1992. (Publié avec le concours du Centre National des Lettres et du Ministère de la Recherche.) Fr 390.

Duris, Pascal; Diaz, Elvire. *Petite histoire naturelle de la première moitié du XIXe siècle: Léon Dufour, Correspondant de l'Institut (1780-*

1865). Préface de Jean Dorst. 308 pp., illus., bibl., indexes. Publié avec le concours de la Mairie de Saint-Sever (Landes). Bordeaux: Presses Universitaires de Bordeaux, 1987. (Paper.)

Edelglass, Stephen; Maier, Georg; Gebert, Hans; Davy, John. *Matter and Mind: Imaginative Participation in Science.* (Anomalies.) 136 pp., illus., figs., bibl., index. Hudson, N.Y.: Lindisfarne Press, 1992. \$12.95 (paper).

Edelman, Gerald M. *Bright Air, Brilliant Fire: On the Matter of the Mind.* xvi + 280 pp., illus., figs., bibl., index. New York: Basic Books, 1992. \$25.

Edison, Thomas A. *The Papers of Thomas A. Edison. Volume 2: From Workshop to Laboratory, June 1873-March 1876.* Edited by Robert A. Rosenberg, Paul B. Israel, Keith A. Nier, and Melodie Andrews. xlvi + 842 pp., frontis., illus., apps., bibl., index. Baltimore, Md./London: Johns Hopkins University Press, 1991. \$75.

Ehrig, R. J. (Editor). *Plastics Recycling: Products and Processes.* xiv + 289 pp., figs., tables, apps., index. Munich/Vienna: Hanser Publishers, 1992. (Distributed in the U.S.A. and Canada by Oxford University Press, and in all other countries by Carl Hanser Verlag.) \$64.

Elvee, Richard Q. (Editor). *The End of Science?: Attack and Defense.* (Nobel Conference XXV, Gustavus Adolphus College, Saint Peter, Minn.) xiv + 90 pp., bibl. Lanham, Md.: University Press of America, 1992. \$36 (cloth); \$13 (paper).

Etheridge, Elizabeth W. *Sentinel for Health: A History of the Centers for Disease Control.* xx + 414 pp., illus., figs., bibl., index. Berkeley/Los Angeles: University of California Press, 1992. \$42.50.

Evans, David S. Lacaille. *Astronomer, Traveler: With a New Translation of His Journal.* (Pachart History of Astronomy Series, Vol. 9.) 320 pp., frontis., illus., tables, apps., bibl., index. Tucson, Ariz.: Pachart Publishing House, 1992. \$36 (paper).

Fatio, Olivier (Editor). *Les églises face aux sciences: Du Moyen Age au XXe siècle.* (Histoire des idées et critique littéraire, Vol. 300.) (Actes du Colloque de la Commission internationale d'histoire ecclésiastique comparée, tenu à Genève en août 1989.) 176 pp., index. Geneva: Librairie Droz S.A., 1991. (Paper.)

Favrholdt, David. *Niels Bohr's Philosophical Background.* (Historisk-filosofiske Meddelelser, 63.) 147 pp. Copenhagen: Det Kongelige Danske Videnskaberne Selskab, 1992. Kr 300 (paper).

Feshbach, Murray; Friendly, Alfred, Jr. *Ecocide in the USSR: Health and Nature Under Siege.* Foreword by Lester Brown. xviii + 376 pp., figs., tables, app., bibl., index. New York: Basic Books, 1992. \$24.

Feuer, Lewis S. *The Scientific Intellectual: The Psychological and Sociological Origins of*

Modern Science. With a new introduction by the author. xlii + 441 pp., apps., index. 1963.

Reprint. New Brunswick, N.J./London: Transaction Publishers, 1992. \$24.95, £18.95 (paper).

Foust, Clifford M. *Rhubarb: The Wondrous Drug*. xxii + 371 pp., illus., tables, bibl., index. Princeton, N.J.: Princeton University Press, 1992. \$35, £27.50.

Freud, Sigmund. *The Diary of Sigmund Freud, 1929-1939: A Record of the Final Decade*. Translated, annotated, with an introduction by **Michael Molnar**. Designed by **Martin Moskof**. In association with The Freud Museum of London. xxvi + 326 pp., frontis., illus., index. New York: Charles Scribner's Sons, A Robert Stewart Book; Toronto: Maxwell Macmillan Canada; New York/Oxford: Maxwell Macmillan International, 1992. \$50, Can\$65.

Fyffe, J. G.; Anderson, R. G. W. (Compilers). *Joseph Black: A Bibliography*. xvi + 125 pp., fig., bibl., index. London: Science Museum, 1992. £9.95 (paper).

Galison, Peter; Hevly, Bruce (Editors). *Big Science: The Growth of Large-Scale Research*. xiv + 392 pp., illus., figs., tables, bibl., index. Stanford, Calif.: Stanford University Press, 1992. \$45.

Garber, Daniel. *Descartes' Metaphysical Physics*. (Science and Its Conceptual Foundations.) xiv + 389 pp., figs., bibl., index. Chicago/London: University of Chicago Press, 1992. \$60, £47.95 (cloth); \$23.95, £19.25 (paper).

Gatti, Luciana. *L'Arsenale e le Galee: Pratiche di costruzione e linguaggio tecnico a Genova tra medioevo ed età moderna*. Parte prima. (Quaderni, 16.) 145 pp., illus., figs. Genoa: Centro di Studio sulla Storia della Tecnica del Consiglio Nazionale delle Ricerche, 1990. (Paper.)

General and Synthetic Methods. Volume 13: A Review of the Literature Published in 1988. Senior Reporter: **G. Pattenden**. Reporters: **C. W. Ellwood** et al. (A Specialist Periodical Report.) xii + 499 pp., figs., index. Cambridge: Royal Society of Chemistry, 1992. £140.

Ghiara, Carola. *Famiglie e carriere artigiane: Il caso dei filatori di seta*. (Quaderni, 17; Maestri e garzoni nella società genovese tra XV e XVI secolo, 6.) 94 + [16] pp., figs. Genoa: Centro di Studio sulla Storia della Tecnica del Consiglio Nazionale delle Ricerche, 1991. (Paper.)

Goldammer, Kurt. *Der göttliche Magier und die Magierin Natur: Religion, Naturmagie und die Anfänge der Naturwissenschaft vom Spätmittelalter bis zur Renaissance*. Mit Beiträgen zum Magie-Verständnis des Paracelsus. (Kosmosophie, Band 5.) 136 pp., apps., index. Stuttgart: Franz Steiner Verlag, 1991. DM 58 (paper).

Goldstein, Jack S. *A Different Sort of Time: The Life of Jerrold R. Zacharias, Scientist,*

Engineer, Educator. xx + 373 pp., frontis., illus., apps., index. Cambridge, Mass./London: MIT Press, 1992. \$35.

Goodman, David; Redclift, Michael. *Refashioning Nature: Food, Ecology and Culture*. xviii + 279 pp., illus., figs., tables, bibl., index. London/New York: Routledge, 1991. \$54.95, Can\$74.95 (cloth); \$18.95, Can\$23.95 (paper).

Grafe, Alfred. *A History of Experimental Virology*. Translated by **Elvira Reckendorf**. xii + 343 pp., figs., tables, bibl., indexes. Berlin/Heidelberg: Springer-Verlag, 1991. \$69.

Graham, Peter W.; Oehlschlaeger, Fritz H. *Articulating the Elephant Man: Joseph Merrick and His Interpreters*. (Parallax Re-visions of Culture and Society.) x + 212 pp., bibl., index. Baltimore/London: Johns Hopkins University Press, 1992. \$24.95.

Greene, Mott T. *Natural Knowledge in Preclassical Antiquity*. xxii + 182 pp., illus., figs., tables, index. Baltimore/London: Johns Hopkins University Press, 1992. \$24.95.

Gregory, Frederick. *Nature Lost?: Natural Science and the German Theological Traditions of the Nineteenth Century*. x + 341 pp., bibl., index. Cambridge, Mass./London: Harvard University Press, 1992. \$39.95.

Grinnell, Frederick. *The Scientific Attitude; (The Conduct of Science Series.)* xx + 180 pp., figs., tables, index. Second edition. New York/London: The Guilford Press, 1992. \$16.95 (paper).

Gross, Gloria Sybil. *This Invisible Riot of the Mind: Samuel Johnson's Psychological Theory*. x + 198 pp., bibl., index. Philadelphia: University of Pennsylvania Press, 1992. \$25.95.

Guyer, Paul (Editor). *The Cambridge Companion to Kant*. (Cambridge Companions.) xii + 482 pp., fig., tables, bibl., index. Cambridge/New York: Cambridge University Press, 1992. \$59.95 (cloth); \$17.95 (paper).

Hardy, G. H. *A Mathematician's Apology*. With a foreword by **C. P. Snow**. 153 pp. 1967. Canto paperback edition. Cambridge/New York: Cambridge University Press, 1992. \$7.95 (paper).

Hardy, Lee; Embree, Lester (Editors). *Phenomenology of Natural Science*. (Contributions to Phenomenology in Cooperation with the Center for Advanced Research in Phenomenology, Vol. 9.) xiv + 301 pp., figs., bibl., index. Dordrecht/Boston/London: Kluwer Academic Publishers, 1992. \$94, £56, Dfl 165.

Herbert, Dieter. *Die Entstehung des Tensorkalküls: Von den Anfängen in der Elastizitätstheorie bis zur Verwendung in der Baustatik*. (Boethius, Band 28.) 318 pp., figs., bibl. Stuttgart: Franz Steiner Verlag, 1991. DM 98 (paper). (Photo-offset from typescript.)

Hindman, Sandra (Editor). *Printing the Written Word: The Social History of Books, circa 1450-1520*. xiv + 332 pp., illus., figs.,

apps., index. Ithaca/London: Cornell University Press, 1991. \$45 (cloth); \$14.95 (paper).

Hodge, M. J. S. *Origins and Species: A Study of the Historical Sources of Darwinism and the Contexts of Some Other Accounts of Organic Diversity from Plato and Aristotle On*. (Harvard Dissertations in the History of Science.) lx + 759 pp., bibl. New York/London: Garland Publishing, Inc., 1991. \$172.

Hoeniger, F. David. *Medicine and Shakespeare in the English Renaissance*. 404 pp., app., bibl., indexes. Newark: University of Delaware Press; London/Toronto: Associated University Presses, 1992. \$55.

Holmes, Frederic Lawrence. *Hans Krebs. Volume 1: The Formation of a Scientific Life, 1900-1933*. (Monographs on the History and Philosophy of Biology.) xx + 491 pp., illus., figs., index. New York/Oxford: Oxford University Press, 1991. \$49.95.

Hook, Diana H.; Norman, Jeremy M. *The Haskell F. Norman Library of Science and Medicine*. 2 Volumes. lxxx + xvi + 1005 pp., frontis., illus., bibl., indexes. San Francisco: Jeremy Norman & Co., Inc., 1991.

Horowitz, Tamara; Massey, Gerald J. (Editors). *Thought Experiments in Science and Philosophy*. (CPS Publications in Philosophy of Science.) 333 pp., figs., bibl. Savage, Md.: Rowman and Littlefield Publishers, Inc., 1991. \$47.50.

Hughes, J. Trevor. *Thomas Willis 1621-1675: His Life and Work*. (Eponymists in Medicine.) xvi + 151 pp., frontis., illus., bibl., index. London: Royal Society of Medicine Services Limited, 1991. £12.95 (cloth); £7.95 (paper).

Isaacs, J. T. (Editor). *Prostate Cancer: Cell and Molecular Mechanisms in Diagnosis and Treatment*. (Cancer Surveys, Vol. 11.) viii + 287 pp., illus., figs., tables, bibl., index. Plainview, N.Y.: Cold Spring Harbor Laboratory Press, for the Imperial Cancer Research Fund, 1991. \$60.

Jarrell, Richard A.; Hull, James P. (Editors). *Science, Technology and Medicine in Canada's Past: Selections from Scientia Canadensis*. 352 pp., illus., tables. Thornhill, Ont.: The Scientia Press Ltd., 1991. \$24.95 (paper).

Josephson, Paul R. *Physics and Politics in Revolutionary Russia*. (California Studies in the History of Science, Vol. 9; Studies of the Harriman Institute.) xx + 423 pp., illus., fig., tables, apps., bibl., index. Berkeley/Los Angeles: University of California Press, 1991. \$39.95.

Kepler, Johannes. *Gesammelte Werke*. Im Auftrag der Deutschen Forschungsgemeinschaft und der Bayerischen Akademie der Wissenschaften. Herausgegeben von der Keplerkommission der Bayerischen Akademie der Wissenschaften. Band XII: *Theologica, Hexenprozess, Tacitus-Übersetzung, Gedichte*. Bearbeitet von **Jürgen Hübner, Helmuth Grössing, Friederike Boockmann, Friedrich**

- Grossing, Friederike Boockmann, Friedrich Serk.** *Redaktion: Volker Bialas.* 443 pp., illus., bibl., indexes. Munich: C. H. Beck'sche Verlagshandlung, 1990. DM 148 (half-vellum); DM 118 (paper).
- Kerns, Virginia; Brown, Judith K.** (Editors). *In Her Prime: New Views of Middle-Aged Women.* xiv + 245 pp., illus., figs., tables, bibl., index. Second edition. Urbana/Chicago: University of Illinois Press, 1992. \$34.95 (cloth); \$15.95 (paper).
- Kitchin, C. R.** *Astrophysical Techniques.* xvi + 480 pp., figs., tables, apps., bibl., index. Second edition. Bristol, Engl./Philadelphia: Adam Hilger, 1991. \$135.
- Kline, Ronald R.** *Steinmetz: Engineer and Socialist.* (Johns Hopkins Studies in the History of Technology, new ser., no. 13.) xii + 401 pp., illus., figs., tables, app., index. Baltimore/London: John Hopkins University Press, 1992.
- Koetsier, Teun.** *Lakatos' Philosophy of Mathematics: A Historical Approach.* (Studies in the History and Philosophy of Mathematics, Vol. 3.) xii + 312 pp., figs., bibl., index. Amsterdam/London: North-Holland, 1991. (Distributed in the U.S.A. and Canada by Elsevier Science Publishing Co., Inc.) \$82, Dfl 160.
- Koons, Robert C.** *Paradoxes of Belief and Strategic Rationality.* (Cambridge Studies in Probability, Induction, and Decision Theory.) xii + 174 pp., apps., bibl., index. Cambridge/New York: Cambridge University Press, 1992. \$49.95.
- Krayer, Albert.** *Mathematik im Studienplan der Jesuiten: Die Vorlesung von Otto Cattenius an der Universität Mainz (1610/11).* (Beiträge zur Geschichte der Universität Mainz, Band 15.) x + 434 pp., illus., figs., app., bibl., indexes. Stuttgart: Franz Steiner Verlag, 1991. DM 98.
- Krop, Henri** (Editor). *Siger van Brabant: De dubbele waarheid.* Uitgegeven, ingeleid en van aantekeningen voorzien door Henri Krop. (Geschiedenis van de wijsbegeerte in Nederland, 1.) 166 pp., frontis., bibl. Baarn: Ambo, 1992. Dfl 29.50 (paper).
- Kugler, Hartmut** (Editor). *Ein Weltbild vor Columbus: Die Ebstorfer Weltkarte. Interdisziplinäres Colloquium 1988.* In Zusammenarbeit mit Eckhard Michael. viii + 407 pp., illus., figs., table, app., bibl., indexes. Weinheim: VCH Acta humaniora, 1991. DM 158.
- Kuklick, Henrika.** *The Savage Within: The Social History of British Anthropology, 1885-1945.* x + 325 pp., illus., tables, apps., index. Cambridge/New York: Cambridge University Press, 1991. \$44.95.
- Laqueur, Thomas.** *Making Sex: Body and Gender from the Greeks to Freud.* xiv + 313 pp., illus., index. Cambridge, Mass./London: Harvard University Press, 1990. \$27.95 (cloth); \$12.95 (paper).
- Larsen, Otto N.** *Milestones and Millstones: Social Science at the National Science Foundation, 1945-1991.* xvi + 285 pp., tables, indexes. New Brunswick, N.J./London: Transaction Publishers, 1992. \$32.95, £24.95.
- Lécuyer, Bernard-Pierre; Matalon, Benjamin** (Editors). *Les débuts des sciences de l'homme.* (Communications; École des hautes études en sciences sociales, 54.) 317 pp., illus., table, bibl. Paris: Seuil, 1992. Fr 100 (paper).
- Leibniz, Gottfried Wilhelm.** *Mathematische Schriften. Erster Band: 1672-1676, Geometrie-Zahlentheorie-Algebra (I. Teil).* Unter Aufsicht der Akademie der Wissenschaften in Göttingen. Herausgegeben vom Leibniz-Archiv der Niedersächsischen Landesbibliothek, Hannover. (Sämtliche Schriften und Briefe, Siebente Reihe: Mathematische Schriften.) xl + 954 pp., figs., bibl., indexes. Berlin: Akademie Verlag, 1990.
- Lepenies, Wolf.** *Melancholy and Society.* Translated by Jeremy Gaines and Doris Jones. xviii + 253 pp., index. Cambridge, Mass./London: Harvard University Press, 1992. \$39.95.
- Lerner, Richard M.** *Final Solutions: Biology, Prejudice, and Genocide.* With forewords by R. C. Lewontin and Benno Muller-Hill. xxii + 238 pp., figs., bibl., index. University Park: Pennsylvania State University Press, 1992. \$19.95.
- Livesey, Steven J.** *Theology and Science in the Fourteenth Century: Three Questions on the Unity and Subalternation of the Sciences from John of Reading's Commentary on the Sentences.* (Studien und Texte zur Geistesgeschichte des Mittelalters, Band 25.) Introduction and critical edition. viii + 229 pp., illus., bibl., index. Leiden/New York: E. J. Brill, 1989. Dfl 120 (paper).
- Lovell, Bernard.** *Echoes of War: The Story of H2S Radar.* xxii + 287 pp., illus., figs., tables, apps., index. Bristol, Engl./New York: Adam Hilger, 1991. \$40.
- Lyons, Maryinez.** *The Colonial Disease: A Social History of Sleeping Sickness in Northern Zaire, 1900-1940.* (Cambridge History of Medicine.) xvi + 335 pp., illus., figs., tables, apps., bibl., index. Cambridge/New York: Cambridge University Press, 1992. \$79.95.
- Macagno, Enzo.** *Leonardian Fluid Mechanics: I. History of Kinematics. II. Inception of Modern Kinematics.* Sponsored by National Science Foundation and National Endowment for the Humanities. (IIHR Monograph No. 112.) v + 128 pp., app., bibl. Iowa City: Iowa Institute of Hydraulic Research, The University of Iowa, 1991. (Paper.)
- Macmillan Encyclopedia of Computers.** Gary G. Bitter, Editor in Chief. 2 Volumes. xxvi + 1080 pp., illus., figs., tables, app., bibl., index. New York: Macmillan Publishing Company; Toronto: Maxwell Macmillan Canada; New York/Oxford: Maxwell Macmillan International, 1992. \$150.
- Martin, Julian.** *Francis Bacon, the State, and the Reform of Natural Philosophy.* xiv + 236 pp., app., bibl., index. Cambridge/New York: Cambridge University Press, 1992. \$49.95.
- Martin, Ernst.** *The Calculating Machines (Die Rechenmaschinen): Their History and Development.* Translated and edited by Peggy Aldrich Kidwell and Michael R. Williams. (Charles Babbage Institute Reprint Series for the History of Computing, Vol. 16.) xx + 376 + [xxv] pp., illus., figs., tables, index. Cambridge, Mass./London: MIT Press; Los Angeles/San Francisco: Tomash Publishers, 1992. \$50.
- Mathias, Peter; Davis, John A.** (Editors). *Innovation and Technology in Europe: From the Eighteenth Century to the Present Day.* (The Nature of Industrialization, Vol. 2.) viii + 192 pp., fig., tables, bibl., index. Oxford/Cambridge, Mass.: Blackwell, 1991. \$39.95.
- Maxwell, James Clerk.** *The Scientific Letters and Papers of James Clerk Maxwell.* Volume 1: 1846-1862. Edited by P. M. Harman. xxviii + 748 pp., frontis., illus., figs., app., index. Cambridge/New York: Cambridge University Press, 1990.
- McMullin, Ernan.** *The Inference That Makes Science.* (The Aquinas Lecture, 1992.) Under the auspices of the Wisconsin-Alfa Chapter of Phi Sigma Tau. [x] + 112 pp. Milwaukee: Marquette University Press, 1992.
- Moyer, Ann E.** *Musica Scientia: Musical Scholarship in the Italian Renaissance.* x + 325 pp., illus., bibl., index. Ithaca, N.Y./London: Cornell University Press, 1992. \$44.50.
- Müller, Ingo Wilhelm.** *Iatromechanische Theorie und ärztliche Praxis im Vergleich zur galenistischen Medizin: (Friedrich Hoffman - Pieter van Foreest, Jan van Heurne).* (Historische Forschungen, Band 17.) 320 pp., app., bibl., index. Stuttgart: Franz Steiner Verlag, 1991. DM 72 (paper).
- National Library of Medicine.** *Bibliography of the History of Medicine: No. 26-1990.* (NIH Publication No. 91-315.) x + 384 pp., bibl. Washington, D.C.: U.S. Department of Health and Human Services; Bethesda, Md.: National Library of Medicine, 1991. \$18 in U.S.A.; \$22.50 elsewhere (paper).
- Navarro Veguillas, Luis** (Editor). *El siglo de la física: Interacciones ciencia-sociedad a la vista de las grandes revoluciones de la física moderna.* Una convocatoria de Luis Navarro Veguillas. (Metatemas, 26.) 267 pp., figs., bibl., index. Barcelona: Tusquets Editores, 1992. (Paper.)
- Nelkin, Dorothy** (Editor). *Controversy: Politics of Technical Decisions.* (Sage Focus Editions, 8.) xxvi + 258 pp., table, index. Third edition. Newbury Park, Calif./London: Sage Publications, 1992. \$21.95 (paper).
- Noble, David F.** *A World Without Women: The Christian Clerical Culture of Western Science.* xviii + 330 pp., frontis., index. New York: Alfred A. Knopf, 1992. \$25, Can\$31.50.
- Nussbaum, Martha C.; Rorty, Amélie**

Oksenberg (Editors). *Essays on Aristotle's De Anima*. viii + 439 pp., bibl., indexes. Oxford/New York: Clarendon Press of Oxford University Press, 1992. \$55.

Ordway, Frederick I. III; Liebermann, Randy (Editors). *Blueprint for Space: Science Fiction to Science Fact*. Prologue by **Michael Collins**. Epilogue by **Arthur C. Clarke**. 224 pp., illus., tables, bibls., index. Washington, D.C./London: Smithsonian Institution Press, 1992. \$60, \$71.95 in Europe and Far East, £46.75 (cloth); \$24.95, £14.95 (paper).

Pacey, Arnold. *The Maze of Ingenuity: Ideas and Idealism in the Development of Technology*. xii + 306 pp., illus., figs., tables, bibl., index. Second edition. Cambridge, Mass./London: MIT Press, 1992. \$12.95 (paper).

Parel, Anthony J. *The Machiavellian Cosmos*. x + 203 pp., bibl., index. New Haven, Conn./London: Yale University Press, 1992. \$30.

Pedersen, Olaf. *The Book of Nature*. vi + 92 pp. Vatican City State: Vatican Observatory Publications, 1992. (Distributed in Italy and Vatican City State by Libreria Editrice Vaticana; distributed elsewhere by University of Notre Dame Press.) \$9.95 (paper).

Pesticide Index: An Index of Chemical, Common, and Trade Names of Pesticides and Related Crop-Protection Products. Editors: **Hamish Kidd and David R. James**. iv + 280 pp. Second edition. Cambridge: Royal Society of Chemistry, 1991. £25 (paper).

Petitjean, Patrick; Jami, Catherine; Moulin, Anne Marie (Editors). *Science and Empires: Historical Studies about Scientific Development and European Expansion*. (Boston Studies in the Philosophy of Science, Vol. 136.) (Papers from a symposium organized by the REHSEIS group of CNRS, April 3-6, 1990, Paris.) Dordrecht/Boston/London: Kluwer Academic Publishers Group, 1992. \$99, £61, Dfl 180.

Pirogov, Nikolai Ivanovich. *Questions of Life: Diary of an Old Physician*. Edited and with a new introduction by **Galina V. Zarechnak**. (Resources in Medical History.) xxxiv + 480 pp., frontis., illus., bibl., index. Canton, Mass.: Science History Publications/USA, 1991. \$29.95.

Platon. *Timée/Critias*. Traduction inédite, introduction et notes par **Luc Brisson**. Avec la collaboration de **Michel Patillon**. 438 pp., figs., tables, apps., bibls., indexes. Paris: GF Flammarion, 1992. (Publié avec le concours du Centre national des Lettres.) (Paper.)

Porter, Roy. *Doctor of Society: Thomas Beddoes and the Sick Trade in Late-Enlightenment England*. (The Wellcome Institute Series in the History of Medicine.) x + 238 pp., bibl., index. London/New York: Routledge, 1992. \$77.50, Can\$96.95.

Raven, Diederick; van Vucht Tijssen,

Lietke; de Wolf, Jan (Editors). *Cognitive Relativism and Social Science*. xxx + 297 pp., bibl., index. New Brunswick, N.J./London: Transaction Publishers, 1992. \$29.95, £21.95.

Rayner-Canham, Marelene F.; Rayner-Canham, Geoffrey W. *Harriet Brooks: Pioneer Nuclear Scientist*. xx + 168 pp., illus., apps., bibl., index. Montreal/London: McGill-Queen's University Press, 1992. \$29.95.

Rechenauer, Georg. *Thukydides und die hippokratische Medizin: Naturwissenschaftliche Methodik als Modell für Geschichtsdeutung*. (Spudasmata, Band 47.) xii + 396 pp., bibl., index. Hildesheim/Zürich: Georg Olms Verlag, 1991. DM 98 (paper).

Reeds, Karen Meier. *Botany in Medieval and Renaissance Universities*. (Harvard Dissertations in the History of Science.) xx + 274 pp., illus., bibl., app., index. New York/London: Garland Publishing, Inc., 1991. \$86.

Richards, Robert J. *The Meaning of Evolution: The Morphological Construction and Ideological Reconstruction of Darwin's Theory*. (Science and Its Conceptual Foundations.) xvi + 205 pp., frontis., illus., bibl., index. Chicago/London: University of Chicago Press, 1992. \$19.95, £15.95.

Roberts, Verne L.; Trent, Ivy. *Bibliotheca Mechanica*. xvi + 391 pp., frontis., illus., bibl., index. New York: Jonathan A. Hill, 1991. Deluxe issue: \$500; regular issue: \$260.

Rogal, Samuel J. (Compiler). *Medicine in Great Britain from the Restoration to the Nineteenth Century, 1660-1800: An Annotated Bibliography*. (Bibliographies and Indexes in Medical Studies, No. 8.) xii + 258 pp., indexes. New York/Westport, Conn.: Greenwood Press, 1992. \$65. (Photo-offset from typescript.)

Romaine-Davis, Ada. *John Gibbon and His Heart-Lung Machine*. xxii + 251 pp., illus., figs., tables, app., bibl., index. Philadelphia: University of Pennsylvania Press, 1991. \$37.95.

Rook, Arthur; Carlton, Margaret; Cannon, W. Graham. *The History of Addenbrooke's Hospital, Cambridge*. xiv + 521 pp., illus., tables, apps., index. Cambridge/New York: Cambridge University Press, 1991. \$59.95.

Rosen, Joe. *The Capricious Cosmos: Universe Beyond Law*. xvi + 175 pp., figs., bibls., index. New York: Macmillan Publishing Company; Toronto: Maxwell Macmillan Canada; New York/Oxford: Maxwell Macmillan International, 1991. \$19.95, Can\$27.95.

Rosenberg, Charles E.; Golden, Janet (Editors). *Framing Disease: Studies in Cultural History*. (Health and Medicine in American Society.) xxvi + 326 pp., figs., index. New Brunswick, N.J.: Rutgers University Press, 1992. \$48 (cloth); \$16 (paper).

Rothfield, Lawrence. *Vital Signs: Medical Realism in Nineteenth-Century Fiction*. (Literature in History.) xviii + 235 pp., index. Princeton, N.J.: Princeton University Press,

1992. \$27.50, £22.

Rothman, Milton A. *The Science Gap: Dispelling the Myths and Understanding the Reality of Science*. 254 pp., fig., tables, index. Buffalo/New York: Prometheus Books, 1992. \$24.95.

Rouse, Irving. *The Tainos: Rise and Decline of the People Who Greeted Columbus*. xii + 211 pp., illus., figs., bibl., index. New Haven, Conn./London: Yale University Press, 1992. \$25.

Said, Hakim Mohammed (Editor). *Essays on Science*. Volume 1: *Felicitation Volume in Honour of Dr. Salimuzzaman Siddiqui*. viii + 399 pp., illus., figs., bibl. Karachi: Hamdard Foundation Press, 1986. \$35, Rs 400.

Said, Hakim Mohammed (Editor). *Essays on Science*. Volume 2: *Felicitation Volume in Honour of Dr. S. Mahdihassan*. xviii + 309 pp., illus., figs., tables, bibls. Karachi: Hamdard Foundation Press, 1987. \$30, Rs 300.

Said, Hakim Mohammed (Editor). *Essays on Science*. Volume 3: *Felicitation Volume in Honour of Dr. Joseph Needham*. xiv + 267 pp., illus., figs., tables, bibls. Karachi: Hamdard Foundation Pakistan, 1990. \$40, £20, Rs 400.

Said, Hakim Mohammed (Editor). *Essays on Science*. Volume 4: *Felicitation Volume in Honour of Dr. M. Raziuddin Siddiqi*. xvi + 287 pp., illus., figs., tables, bibl. Karachi: Hamdard Foundation Pakistan, 1991. \$40, Rs 400.

Said, Hakim Mohammed. *Essays on Science*. Volume 5: *Felicitation Volume in Honour of Dr. M. D. Shami*. xx + 224 pp., illus., apps. Karachi: Hamdard Foundation Pakistan, 1991. \$40, Rs 400.

Schrödinger, Erwin. *What is Life?: The Physical Aspect of the Living Cell. With Mind and Matter and Autobiographical Sketches* x + 184 pp., figs. 1967. Canto paperback edition. Cambridge/New York: Cambridge University Press, 1992. \$9.95 (paper).

Scott, Alan. *Origen and the Life of the Stars: A History of an Idea*. (Oxford Early Christian Studies.) xvi + 189 pp., apps., bibl., indexes. Oxford: Clarendon Press of Oxford University Press, 1991. \$49.95.

Seitz, Frederick. *The Science Matrix: The Journey, Travails, Triumphs*. xiv + 146 pp., bibls., indexes. New York/Berlin: Springer-Verlag, 1992. \$39.50.

Serber, Robert. *The Los Alamos Primer: The First Lectures on How To Build An Atomic Bomb*. Annotated by **Robert Serber**. Edited with an introduction by **Richard Rhodes**. xxxiv + 98 pp., illus., figs., apps., index. Berkeley/Los Angeles: University of California Press, 1992. \$23.

Sexton, Christopher. *The Seeds of Time: The Life of Sir Macfarlane Burnet*. x + 301 pp., illus., apps., bibl., index. Oxford/New York/Melbourne: Oxford University Press, 1991. \$39.95.

Shapiro, Barbara J. "Beyond Reasonable Doubt" and "Probable Cause": *Historical Perspectives on the Anglo-American Law of*

Evidence. xvi + 365 pp., app., bibl., index.

Berkeley/Los Angeles/Oxford: University of California Press, 1991. \$42.50.

Siegel, Daniel M. *Innovation in Maxwell's Electromagnetic Theory: Molecular Vortices, Displacement Current, and Light*. x + 225 pp., figs., apps., index. Cambridge/New York: Cambridge University Press, 1991. \$49.50.

Simplicius. *Corollaries on Place and Time*. Translated by J. O. Urmson. Annotated by **Lucas Storvanes**. (Ancient Commentators on Aristotle.) 157 pp., app., bibl., index. Ithaca, N.Y.: Cornell University Press, 1992. \$47.95.

Slobodkin, Lawrence B. *Simplicity and Complexity in Games of the Intellect*. 266 pp., illus., figs., index. Cambridge, Mass./London: Harvard University Press, 1992. \$24.95.

Smith, C. A.; Wood, E. J. *Cell Biology*. (Molecular and Cell Biochemistry.) xvi + 366 pp., illus., figs., tables, index. London/New York: Chapman & Hall, 1992. \$31, Can\$37.50 (paper).

Smith, E. Brian. *Basic Chemical Thermodynamics*. (Oxford Chemistry Series, 35.) xvi + 166 pp., figs., tables, apps., bibl., index. Fourth edition. Oxford: Clarendon Press, 1990.

Somit, Albert; Peterson, Steven A. (Editors). *The Dynamics of Evolution: The Punctuated Equilibrium Debate in the Natural and Social Sciences*. x + 325 pp., figs., tables, bibl., index. Ithaca, N.Y./London: Cornell University Press, 1992. \$47.50 (cloth); \$17.95 (paper).

Sonbol, Amira el Azhary. *The Creation of a Medical Profession in Egypt, 1800-1922*. (Contemporary Issues in the Middle East.) xiv + 177 pp., table, bibl., index. Syracuse, N.Y.: Syracuse University Press, 1991. \$34.95.

Stark, Werner. *The Sociology of Knowledge: Toward a Deeper Understanding of the History of Ideas*. With a new introduction by E. Doyle McCarthy. xxiv + 356 pp., index. 1958. New Brunswick, N.J./London: Transaction Publishers, 1991. \$21.95, £16.95 (paper).

Stevenson, Louise L. *The Victorian Homefront: American Thought and Culture, 1860-1880*. (Twayne's American Thought and Culture Series.) xviii + 235 pp., illus., index. New York: Twayne Publishers; Toronto: Maxwell Macmillan Canada; New York/Oxford: Maxwell Macmillan International, 1991. \$28.95 (cloth); \$12.95 (paper).

Teich, Mikulas with Dorothy M. Needham. *A Documentary History of Biochemistry, 1770-1940*. xxxviii + 579 pp., figs., tables, bibl. Rutherford, N.J./Madison, N.J.: Fairleigh Dickinson University Press, 1992. \$85.

Templer, John. *The Staircase*. Volume 1: *History and Theories*. xiv + 185 pp., illus., figs., bibl., index. Volume 2: *Studies of Hazards, Falls and Safer Design*. xvi + 200 pp., illus., figs., tables, app., bibl., index. Cambridge, Mass./London: MIT Press, 1991. \$27.50 (Vol. 1); \$32.50 (Vol. 2); \$55 (2-vol. set).

Terborgh, John. *Diversity and the Tropical Rain Forest*. xii + 242 pp., illus., figs., tables, index. New York: Scientific American Library, 1992. \$32.95.

Thagard, Paul. *Conceptual Revolutions*. xvi + 285 pp., figs., tables, bibl., index. Princeton, N.J.: Princeton University Press, 1992. \$35.

Thomas, John M.; Phillips, David (Editors). *Selections and Reflections: The Legacy of Sir Lawrence Bragg*. Production editor: Sara T. Nash. x + 308 pp., frontis., illus., figs., tables, bibl. Middlesex, U.K.: Science Reviews Ltd., 1990. (Distributed in the U.S.A. by Henchek & Associates, Chicago.) \$60.

Thomas, Lewis. *The Fragile Species*. xii + 193 pp. New York: Charles Scribner's Sons, A Robert Stewart Book; Toronto: Maxwell Macmillan Canada; New York/Oxford: Maxwell Macmillan International, 1992. \$20.

Tihon, Anne. *Le "Grand Commentaire" de Théon d'Alexandrie aux tables faciles de Ptolémée: Livres II et III*. Édition critique, traduction, commentaire. (Studi e Testi, 340.) [iv] + 366 pp., figs., tables, bibl., indexes. Vatican City: Biblioteca Apostolica Vaticana, 1991. (Paper.)

Trebuchet, Georges; Gautier, Christian. *Une famille, une maison: Vilmorin-Andrieux*. xii + 119 pp., illus., bibl. Verrières: L'Historique de Verrières, 1982. (Paper.)

Tschirner, Martina; Göbel, Heinz-Werner (Editors). *Wissenschaft im Krieg - Krieg in der Wissenschaft*. Ein Symposium an der Philipps-Universität Marburg. 50 Jahre nach Beginn des II. Weltkrieges. (Schriftenreihe des Arbeitskreises Marburger Wissenschaftler für Friedens- und Abrüstungsforschung (AMW) und der Interdisziplinären Arbeitsgruppe Friedens- und Abrüstungsforschung an der Philipps-Universität Marburg (IAFA), Nr. 15.) 437 pp., illus., figs., bibl. Marburg: AMW, 1990. DM 30 (paper).

Turkle, Sherry. *Psychoanalytic Politics: Jacques Lacan and Freud's French Revolution*. (Critical Perspectives.) xxxiv + 344 pp., index. Second edition. London: Free Association Books; New York/London: The Guilford Press, 1992. \$36.95 (cloth); \$16.95 (paper).

Ucko, Peter J.; Hunter, Michael; Clark, Alan J.; David, Andrew. *Avebury Reconsidered: From the 1660s to the 1990s*. Published on behalf of the Institute of Archaeology, University College London. xvi + 293 pp., illus., figs., tables, apps., bibl., index. With separate folder of transparencies. London/Boston: Unwin Hyman, 1991. \$60.

Ulrich, Laurel Thatcher. *A Midwife's Tale: The Life of Martha Ballard, Based on Her Diary, 1785-1812*. xii + 444 pp., illus., figs., app., index. New York: Alfred A. Knopf, 1991. \$24.95.

Untalan, Faye F.; Mills, Crystal S. (Editors). *Interdisciplinary Perspectives in Child Abuse*

and Neglect. xii + 192 pp., figs., tables, apps., bibl., index. New York/Westport, Conn.: Praeger, 1992. \$47.95.

van der Linden, F. Robert. *The Boeing 247: The First Modern Airliner*. Illustrations by **Victor J. Seely**. xiv + 254 pp., illus., figs., apps., bibl., index. Seattle/Washington: University of Washington Press for the National Air and Space Museum, 1991. \$24.95.

van Fraassen, Bas C. *Quantum Mechanics: An Empiricist View*. xvi + 541 pp., figs., tables, bibl., index. Oxford/New York: Clarendon Press of Oxford University Press, 1991. \$69.

Van de Vijver, Gertrudis. *New Perspectives on Cybernetics: Self-Organization, Autonomy and Connectionism*. (Synthese Library, Vol. 220.) 252 pp., figs., tables, bibl., index. Dordrecht/Boston/London: Kluwer Academic Publishers, 1992. \$79, £47, Dfl 140.

Vasey, Daniel E. *An Ecological History of Agriculture: 10,000 B.C. - A.D. 10,000*. xii + 363 pp., figs., tables, bibl., index. Ames: Iowa State University Press, 1992. \$34.95.

Vermij, Rienk H. *Secularisering en natuurwetenschap in de zeventiende en achttiende eeuw: Bernard Nieuwentijt*. (Nieuwe Nederlandse Bijdragen tot de Geschiedenis der Geneeskunde en der Natuurwetenschappen, No. 38.) 173 pp., figs., bibl., index. Amsterdam/Atlanta: Rodopi, 1991. \$24.75, Dfl 49.50 (paper).

Waterstone, Marvin (Editor). *Risk and Society: The Interaction of Science, Technology and Public Policy*. (Technology, Risk, and Society, Vol. 6.) xx + 178 pp., figs., tables, bibl. Dordrecht/Boston/London: Kluwer Academic Publishers, 1992. \$88, £54, Dfl 160.

Watson, Elizabeth L. *Houses for Science: A Pictorial History of Cold Spring Harbor Laboratory*. With *Landmarks in Twentieth Century Genetics: A Series of Essays*, by **James D. Watson**. xvi + 351 pp., illus., figs., bibl., index. Plainview, N.Y.: Cold Spring Harbor Laboratory Press, 1991. \$75.

Watson, Patricia A. *The Angelical Conjunction: The Preacher-Physicians of Colonial New England*. x + 187 pp., tables, apps., index. Knoxville: University of Tennessee Press, 1991. \$29.95.

Wear, Andrew (Editor). *Medicine in Society: Historical Essays*. x + 397 pp., figs., tables, index. Cambridge/New York: Cambridge University Press, 1992. \$69.95 (cloth); \$19.95 (paper).

Weindling, Paul Julian. *Darwinism and Social Darwinism in Imperial Germany: The Contribution of the Cell Biologist Oscar Hertwig (1849-1922)*. (Forschungen zur neueren Medizin- und Biologiegeschichte, Band 3.) 355 pp., illus., table, bibl., apps., index. Mainz: Akademie der Wissenschaften und der Literatur; Stuttgart/New York: Gustav Fischer Verlag, 1991. DM 148.

West, Thomas G. *In the Mind's Eye: Visual*

Thinkers, Gifted People with Learning Difficulties, Computer Images, and the Ironies of Creativity. 359 pp., illus., apps., bibl., index. Buffalo, N.Y.: Prometheus Books, 1991. \$24.95.

Wilkinson, Lise. *Animals and Disease: An Introduction to the History of Comparative Medicine.* x + 272 pp., illus., index. Cambridge/New York: Cambridge University Press, 1992. \$69.95.

Position Notice Just Received

The History Department and the Program in the History of Science of Princeton University invite applications for an assistant professorship in the history of science. Field of expertise is open, but preference for a specialization in 20th century biological science and/or American science. Candidates should submit dossiers, including three letters of reference and writing samples to M. Norton Wise, Department of History, Princeton University, Princeton, NJ 08544 by 1 November 1992.

Contents — July 1992

NEH Division of Education Programs	1
Candidate Biographies	2
News of the Society	7
Toronto Meeting Information	7
News of <i>Isis</i>	8
News of <i>Osiris</i>	8
Dibner Visiting Historians of Science Program	8
News of the Profession	9
Rescissions at NSF	9
1992 Annual Meeting	10
Related Societies	20
Future Meetings & Calls for Papers	20
Recently Completed Dissertations	21
Fellowships & Grants Available	22
Position	23
Research Opportunities	24
Recent Fellowships & Grants	25
Awards, Honors, & Appointments	25
Databases, Journals, Encyclopedias & Videotapes	26
Meeting Reports	27
Imaging the Body	27
Tradition, Transmission, Transformation	28
Prize Competitions	28
Book Received by <i>Isis</i>	29

**HISTORY
OF SCIENCE
SOCIETY**

The University of Chicago Press
P. O. Box 37005
Chicago, IL 60637
Forwarding and Return Postage Guaranteed

BULK RATE
U.S. POSTAGE
PAID
Chicago, IL
Permit No. 2010



045323154 HSSN VOL 21#3
KEITH BENSON
PROF/BIO·MED HIST SB-20
UNIV OF WASHINGTON
SEATTLE WA 98195