



VOLUME 17 NUMBER 3
JULY 1988

HISTORY OF SCIENCE SOCIETY

VISIT HAMBURG AND MUNICH

D. J. KEVLES
Chair, U.S. Delegation ICHS

BY NOW American scholars are no doubt aware of the International Congress of the History of Science to be held in Hamburg and Munich during the summer of 1989. Most veterans of previous international congresses will look forward to the event with relish. However, many junior scholars may be daunted by the prospect, thinking that they may find a cold welcome because they are not yet professionally well known or connected.

Don't be misled. If the German Congress is like its predecessors, there will be several wonderful social events as well as numerous scholarly sessions. There will also be some sort of central reception area where at most hours of the day scholars like yourselves will be milling about, eager to make your acquaintance and learn about your work. Additional opportunities for convivial learned discourse await you in the rathskellers, restaurants, and cafés of Hamburg and Munich.

Even if you know few people to begin with, by the end of the Congress you will know a good many more, including some who will turn into good friends as well as colleagues. In all, an international congress can be a marvelous experience. Be aware that the U.S. National Committee of the International Union for the History and Philosophy of Science will do its best to help qualified scholars, especially younger ones, get there and back.

(See information on and application forms for travel grants on page 2.)



An aerial view of the Deutsches Museum in Munich about 1917

HSS EXECUTIVE COMMITTEE

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The Newsletter of the History of Science

Society is published in January, April, July, and October. Regular issues are sent to those individual members of the Society residing in North America. Airmail copies are sent to those members overseas who pay \$5 yearly to cover postal costs. The Newsletter is available to non-members and institutions for \$20 a year.

The *Newsletter* is overseen by a Steering Committee consisting of the President, the Executive Secretary, and the Editor of the History of Science Society. It is edited by the Executive Secretary, Dr. Michael Sokal, and is produced at the Society's Publications Office under the supervision of Dr. Frances Kohler. Send news items to Newsletter, History of Science Society, c/o Michael Sokal, 35 Dean Street, Worcester, MA 01609. The deadline for receipt of news is the tenth of the month prior to publication; for articles and other long copy; the first of the month.

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Travel Grants to the ICHS

Invited speakers and authors of contributed papers may apply for travel grants to attend the XVIII International Congress of History of Science, to be held in Hamburg and Munich, Federal Republic of Germany, 1-9 August 1989. Confirmation of the acceptance of contributed papers is not required for this application, but awards will be conditional on obtaining that confirmation. (The deadline for receipt of abstracts by the Congress Organizing Committee is **31 January 1989**). Scholars in the history of science, medicine, technology, and related fields are eligible. Younger scholars are particularly

encouraged to apply. Applicants must be citizens or permanent residents of the United States.

Applications, using the form in this *Newsletter*, should be sent to Alexandra K. Wigdor, Principal Staff Officer, National Research Council, U.S. National Committee for the International Union of the History and Philosophy of Science, 2101 Constitution Avenue (GF 176), Washington, DC 20418; (202) 334-3026. Supporting documents that must be submitted along with this application form include (1) an abstract of your paper, including a brief statement of the scholarly significance of the topic (not to exceed one single-spaced, typed page); and (2) a brief curriculum vitae (not to exceed two

pages). Applications must be received by **31 January 1989**. Please apply **earlier** if at all possible.

These grants, administered by the National Academy of Sciences/National Research Council, are subject to **several** restrictions. Grants can be applied **only** to air and ground transportation and are likely to cover only the equivalent of the lowest-cost excursion airfare. Grants paid by U.S. government funds require the use of U.S. flag carriers for air travel. Payment can be made only after the ICHS on receipt by the NAS/NRC office of transportation receipts or copies and of a brief report of the grantee's activities at the meeting. Travel may not begin before the notification and acceptance of the grant.

NATIONAL ACADEMY OF SCIENCES/NATIONAL RESEARCH COUNCIL

U.S. NATIONAL COMMITTEE FOR THE
INTERNATIONAL UNION OF THE HISTORY AND PHILOSOPHY OF SCIENCE

APPLICATION FOR TRAVEL GRANT

XVIII INTERNATIONAL CONGRESS OF HISTORY OF SCIENCE
1-9 AUGUST 1989
HAMBURG AND MUNICH, FEDERAL REPUBLIC OF GERMANY

Deadline for receipt of application: **31 January 1989**. Please apply earlier if at all possible.
Please read the accompanying instructions and notes and enclose the supporting documents there described.
Type or print your answers. Send to Alexandra K. Wigdor at the address given above.

Name _____	Have you sent an abstract and registration form to the Organizing Committee? _____
Mailing address _____ _____ _____	Title of your paper: _____ _____ _____
Telephone _____	Section to which submitted (from 2d circular) _____
Are you a citizen or permanent resident of the United States? _____	Other applications made for travel grants to the 1989 Congress _____
Institutional affiliation _____ _____	Financial contribution you expect to obtain from your university \$ _____
Society memberships _____ _____	If you are an invited speaker, what portion of your costs will be met by the Congress organizers? _____
Is your paper invited or is it contributed? _____	Airport from which travel will originate? _____



Lawrence Badash



Richard W. Burkhardt



Joan Cadden



Betty Jo Teeter Dobbs



Frederick Gregory

THE 1988 HSS ELECTION CANDIDATES' BIOGRAPHIES

FOR COUNCIL

Lawrence Badash

Professor of History of Science and Director of the History of Science and Technology Program, University of California, Santa Barbara. Ph.D., Yale University, 1964. ■ Specialties: nineteenth- and twentieth-century physical sciences, especially radioactivity and nuclear physics; nuclear arms race; science and society. ■ Professional activities: HSS—Council, 1975–78; Schuman Prize Committee, 1975; Pfizer Award Committee, 1972. American Physical Society—Division of History of Physics, chair, 1988–89. AAAS—Section on History and Philosophy of Science, member-at-large, 1988–92. West Coast History of Science Society—cofounder, 1971. University of California—Summer Seminar on Global Security and Arms Control, director, 1983, 1986. ■ Selected publications: editor, *Rutherford and Boltwood, Letters on Radioactivity* (Yale, 1969); *Radioactivity in America: Growth and Decay of a Science* (Johns Hopkins, 1979); editor, *Reminiscences of Los Alamos, 1943–1945* (Reidel, 1980); *Kapitza, Rutherford, and the Kremlin* (Yale, 1985).

Richard W. Burkhardt

Professor, Department of History; Affiliate, Department of Ecology, Ethology, and Evolution; University of Illinois at Urbana-Champaign. Ph.D., Harvard University, 1972. ■ Specialties: history of biology; animal behavior studies since the seventeenth century. ■ Professional activities: HSS—Schuman Prize Committee, 1976–77, chair, 1979–80. ■ Selected publications: *The Spirit of the System: Lamarck and Evolutionary Biology* (Harvard, 1977); "The Development of an Evolutional Ethology," in *Evolution from*

Molecules to Men, ed. D. S. Bendall (Cambridge, 1983). ■ Current project: animal behavior studies and their social context in the twentieth century. ■ Statement: I am particularly interested in supporting efforts to make the history of science an integral part of science and history courses at the undergraduate level.

Joan Cadden

Associate Professor of History, Kenyon College. Ph.D., Indiana University, 1971. ■ Specialties: medieval life sciences and medicine; scientific and medical notions of women, sex differences, and reproduction. ■ Professional activities: HSS—Nominating Committee, 1973, 1976; Schuman Prize Committee, 1973–75, chair, 1975; Zeitlin-Ver Brugge Prize Committee, 1986–87, chair, 1987. ■ Selected publications: "Albertus Magnus' University Physiology: The Example of Nutrition," in *Albertus Magnus and the Sciences*, ed. J. A. Weisheipl (Toronto, 1981); "It Takes All Kinds: Sexuality and Gender Differences in Hildegard of Bingen's *Book of Compound Medicine*," *Traditio*, 1984, 40:149–174; "Medieval Scientific and Medical Views of Sexuality: Questions of Propriety," *Medievalia et Humanistica*, N.S., 1986, 14:157–171. ■ Current project: a book on late medieval medical and natural philosophical ideas about sex difference, sexuality, and reproduction.

Betty Jo Teeter Dobbs

Professor of History, Northwestern University. Ph.D., University of North Carolina at Chapel Hill, 1974. ■ Specialties: history of alchemy and chemistry; early modern science. ■ Professional activities: HSS—Council, 1980–83; *Isis* Advisory Editor, 1981–83; Pfizer Award Committee, 1980–81, chair, 1981; Committee on Honors and Prizes, 1982–84; Visiting Historian of Science, 1988–89. ■ Selected publications: *The Foundations of Newton's Alchemy, or "The Hunting of the Greene Lyon"* (Cambridge, 1975); *The Janus Faces of Genius: The Role of Alchemy in Newton's Thought* (forthcoming). ■ Current projects: the decline of alchemy and the rise of modern chemistry; editorial work on unpublished Newton MSS.

Frederick Gregory

Associate Professor of History of Science, University of Florida. Ph.D., Harvard University, 1973. ■ Specialties: modern German science; history of science and religion. ■ Professional activities: HSS—Council, 1981–84; Visiting Historian of Science, 1988–89; Committee on Nominations, 1985–86; Committee on Honors and Prizes, chair, 1984–87; Committee on Meetings and Programs, 1982–86; Program Committee, cochair, 1983; Committee on Programs and Priorities, 1988. ■ Selected publications: *Scientific Materialism in Nineteenth Century Germany* (Reidel, 1977); "Die Kritik von J. F. Fries an Schellings Naturphilosophie," *Sudhoffs*

BALLOT TO COME BY MAIL

No petition candidates have been received. Ballots for the election will be sent separately to each HSS member in **mid August**. Please contact the HSS Executive Secretary, Michael M. Sokal, 35 Dean Street, Worcester, MA 01609, if you have not received a ballot by Labor Day.



Sally Gregory Kohlstedt



Diane Paul



Philip J. Pauly



Albert Van Helden



Robert Westman

Archiv, 1983, 67:145-157; "Romantic Kantianism and the End of the Newtonian Dream in Chemistry," *Archives Internationales d'Histoire des Sciences*, 1984, 34:108-123; "The Impact of Darwinian Evolution on Protestant Theology in the Nineteenth Century," in *God and Nature*, ed. D. Lindberg and R. Numbers (California, 1986); "The Historical Investigation of Science in North America," *Zeitschrift für Allgemeine Wissenschaftstheorie*, 1985, 16:151-166.

Sally Gregory Kohlstedt

Associate Professor, Syracuse University. Ph.D., University of Illinois, 1972.

■ Specialties: history of science in America; institutional development of science; women in science; science education.

■ Professional activities: HSS—Secretary, 1978-82; Council, 1982-84; Committee on Publications, 1982-87. AAAS—Section on History and Philosophy of Science, chair, 1986. Forum on the History of Science in America—Coordinator, 1985-86. Organization of American Historians—Committee on the Status of Women, chair, 1983-85. ■ Selected publications: *Formation of the American Scientific Community* (Illinois, 1976); ed. (with Margaret Rossiter), *Historical Writing on American Science* (*Osiris*, 1985; Johns Hopkins, 1986); "International Exchange and National Style," in *Scientific Colonialism*, ed. N. Reingold and M. Rothenberg (Smithsonian, 1985); "Museums on Campus: A Tradition of Inquiry and Teaching," in *The Development of American Biology*, ed. K. Benson, J. Maienschein, and R. Rainger (Pennsylvania, forthcoming); "History in a Natural History Museum," *Public Historian* (forthcoming). Current projects: history of natural history museums; nature study curriculum and teachers. ■ Statement: The innovations begun by the Society in recent years should be evaluated, consolidated, and expanded, especially with

regard to teaching the history of science (at every level and in conjunction with museums) and encouraging all scholars.

Diane Paul

Associate Professor, Department of Political Science, University of Massachusetts at Boston. Ph.D., Brandeis University, 1975. ■ Specialties: history of modern biology; the nature-nurture controversy; genetics and agriculture; science textbooks. ■ Professional activities: American Political Science Association—Ethics Committee. ■ Selected publications: "Marxism, Darwinism, and the Theory of Two Sciences," *Marxist Perspectives*, 1979, 5:116-143; "Eugenics and the Left," *Journal of the History of Ideas*, 1984, 35:567-590; "'Our Load of Mutations' Revisited," *Journal of the History of Biology*, 1987, 20:321-335; "The Nine Lives of Discredited Data," *The Sciences*, May/June 1987, pp. 26-30. ■ Current project: a social history of clinical genetics.

■ Statement: I would work to promote the history of science at nonelite institutions.

Philip J. Pauly

Associate Professor of History, Rutgers University. Ph.D., Johns Hopkins University, 1981. ■ Specialties: history of biology; history of psychology; science in America. ■ Selected publications: *Controlling Life: Jacques Loeb and the Engineering Ideal in Biology* (Oxford, 1987); "Summer Resort and Scientific Discipline: Woods Hole and the Structure of American Biology, 1882-1925," in *The Development of American Biology*, ed. K. Benson, J. Maienschein, and R. Rainger (Pennsylvania, forthcoming); "Samuel Butler and His Darwinian Critics," *Victorian Studies*, 1982, 25:161-180. ■ Current projects: the urbanization of biology in America; scientists and alcohol. ■ Statement: One of my aims would be to

encourage the formation of interest groups within the Society and thereby improve ties to other scholarly societies.

Albert Van Helden

Professor and Chair, Department of History, Rice University. Ph.D., Imperial College, University of London, 1970.

■ Specialties: history of astronomy; Scientific Revolution. ■ Professional activities: HSS—Program Committee, chair, 1985; National Committee, Visiting Historians of Science, 1987-88; Watson Davis Prize Committee, 1987-88. AAAS—Section on History and Philosophy of Science, member-at-large, 1987-91. International Academy of the History of Science—corresponding member. ■ Selected publications: *The Invention of the Telescope* (1977); *Measuring the Universe: Cosmic Dimensions from Aristarchus to Halley* (1985). Current project: a book on the origins of telescopic astronomy.

Robert Westman

Professor of History, University of California, San Diego. Ph.D., University of Michigan, 1971. ■ Specialties: social and cultural history of early modern science; history of psychoanalysis. ■ Selected publications: editor, *The Copernican Achievement* (California, 1975); coeditor, book on reappraisals of the Scientific Revolution (Cambridge, forthcoming); coauthor, *The Wittich Connection: Priority and Conflict in Sixteenth-Century Cosmology* (Transactions of the American Philosophical Society, forthcoming); "The Melanchthon Circle, Reticus, and the Wittenberg Interpretation of the Copernican Theory," *Isis*, 1975, 66:165-193; "The Astronomer's Role in the Sixteenth Century," *History of Science*, 1980, 18:105-147; "Nature, Art, and Psyche: Jung, Pauli, and the Kepler-Fludd Polemic," in *Occult and Scientific Mentalities in the Renaissance*, ed. Brian Vickers (Cambridge, 1984); "The Reception of Galileo's



Edward Grant



Erwin Hiebert



Sharon Kingsland



Ernan McMullin



Kathryn M. Olesko

Dialogue: A Partial World Census of Extant Copies," in *Novita celesti e crisi del sapere*, ed. Paolo Galluzzi (1984); "La préface de Copernic au pape: Esthétique humaniste et réforme de l'église," *History and Technology*, 1987, 3:365-384.

FOR NOMINATING COMMITTEE, FROM COUNCIL

Edward Grant

Professor of History of Science, Indiana University. Ph.D., University of Wisconsin, 1957. ■ Specialties: medieval science and natural philosophy; medieval and Renaissance Aristotelianism. ■ Professional activities: HSS—Vice-President and President, 1983-86; Schuman Prize Committee, 1959-60; Pfizer Award Committee, 1975; *Isis*, Advisory Editor, 1981-86. ■ Selected publications: *Nicole Oresme and the Kinematics of Circular Motion* (Wisconsin, 1971); *A Source Book in Medieval Science* (Harvard, 1974); *Much Ado About Nothing: Theories of Space and Vacuum from the Middle Ages to the Scientific Revolution* (Cambridge, 1981).

Erwin Hiebert

Professor of the History of Science, Harvard University. Ph.D., University of Wisconsin, 1954. ■ Specialties: history and philosophy of nineteenth- and twentieth-century physics and physical chemistry. ■ Professional activities: HSS—Vice-President and President, 1971-74. Division of the History of Science, International Union of History and Philosophy of Science—Vice-President and President, 1974-86; Coeditor, *Science Networks*, Birkhäuser/Deutscher Verlag der Wissenschaften. ■ Selected publications: "The Scientist as Philosopher of Science," *NTM*, 1987; "The Role of Experiment and Theory in the Development of Nuclear Physics in Early 1930's," in *Theory and Experiment*, ed. Batens and van

Bendegen [Reidel, 1988]. ■ Current project: Nuclear physics in Berlin in the circle of Lise Meitner.

Sharon Kingsland

Associate Professor of History of Science, Johns Hopkins University. Ph.D., University of Toronto, 1981. ■ Specialties: history of biology, nineteenth and twentieth centuries; American biology. ■ Professional activities: HSS—Council, 1988-90; Committee on Education, 1988-90; Schuman Prize Committee, 1984-85. ■ Selected publications: *Modeling Nature: Episodes in the History of Population Ecology* (Chicago, 1985). ■ Current project: history of genetics and evolutionary biology in America to 1920.

Ernan McMullin

O'Hara Professor of Philosophy, University of Notre Dame. Ph.D., University of Louvain, 1954. ■ Specialties: history of the philosophy of science; contemporary philosophy of science; science and religion. ■ Professional activities: HSS—Council, 1988-90. U.S. National Committee International Union of History and Philosophy of Science, chair, 1982-84, 1986-87. Philosophy of Science Association—President, 1980-82. ■ Selected publications: *Newton on Matter and Activity* (Notre Dame, 1978); editor, *Galileo, Man of Science* (Basic, 1968); editor, *The Concept of Matter in Modern Philosophy* (Notre Dame, 1978); "Bruno and Copernicus," *Isis*, 1987, 78:55-74; "Galilean Idealization," *Studies in History and Philosophy of Science*, 1985, 16:247-273.

Kathryn M. Olesko

Assistant Professor of History, Georgetown University. Ph.D., Cornell University, 1980. ■ Specialties: history of physics; German science; science education; historiography. ■ Professional activities: HSS—Council, 1987-89; Committee

on Education, 1982-84, chair, 1986-88; Ad Hoc Committee on Executive Secretary Position, 1986; Schuman Prize Committee, 1981-82, chair, 1982; Committee on Women, 1975-84, vice-chair, 1980, chair, 1981, acting chair, 1982. ■ Selected publications: *Physics as a Calling: Discipline and Practice in the Königsberg Seminar for Physics* (Cornell, forthcoming); guest editor, *Science in Germany: Problems at the Intersection of Institution and Intellectual History*, *Osiris*, N.S., 1989, 5; "Albert A. Michelson and the Reform of Physics Instruction at the Naval Academy in the 1870s," in *The Michelson Era in American Science*, ed. R. Stuewer and S. Goldberg (AIP, 1988); "On Institutes, Investigations, and Scientific Training," in *The Investigative Enterprise*, ed. W. Coleman and F. L. Holmes (California, 1988). ■ Current projects: secondary school physics instruction in nineteenth-century America and Germany; the relation between pedagogy and practice in the sciences.

Shirley A. Roe

Associate Professor of History, University of Connecticut. Ph.D., Harvard University, 1976. ■ Specialties: history of biology; history of the relations between science and philosophy; science and society in the Enlightenment. ■ Professional activities: HSS—Council, 1987-89; Committee on Publications, 1987-91; Committee on Meetings and Programs, 1987-89; Program Committee, cochair, 1988; Schuman Prize Committee, 1985-86, chair, 1986. *Journal of the History of Biology*—Associate Editor, 1980-present. Joint Atlantic Seminar in the History of Biology—Coorganizer, 1982, 1987. ■ Selected publications: *Science Against the Unbelievers: The Correspondence of Bonnet and Needham, 1760-1780* (with Renato B. Mazzolini) (Studies on Voltaire and the Eighteenth Century, Voltaire Foundation, 1986); *Matter, Life, and Generation: Eighteenth-Century Embryology*



Shirley A. Roe



William A. Wallace



John Beatty



Robert E. Kohler



John W. Servos

and the Haller-Wolff Debate (Cambridge, 1981); "Voltaire versus Needham: Atheism, Materialism, and the Generation of Life," *Journal of the History of Ideas*, 1985, 46:65-87; "Anatomia animata: The Newtonian Physiology of Albrecht von Haller," in *Transformation and Tradition in the Sciences: Essays in Honor of I. Bernard Cohen*, ed. Everett Mendelsohn (Cambridge, 1984); "John Turberville Needham and the Generation of Life," *Isis*, 1983, 74:159-184. ■ Current project: a book on biological materialism in the eighteenth century.

William A. Wallace

Visiting Professor, University of Maryland, College Park; Professor Emeritus, History and Philosophy of Science, Catholic University of America. Ph.D., University of Fribourg, 1959. ■ Specialties: scientific methodology; medieval and Renaissance science; Scientific Revolution. ■ Professional activities: HSS—Council, 1974-77, 1988-91. Philosophy of Science Association—Nominating Committee, 1980-82. ■ Selected publications: *Prelude to Galileo* (Reidel, 1981); *Galileo and His Sources* (Princeton, 1984); *Reinterpreting Galileo*, ed. (Catholic, 1986). Current project: Galileo's logical treatises—dating, sources, English translation with commentary. ■ Statement: I am interested in maintaining interest within the Society in natural philosophy and in the sources of its tradition (Latin, Arab, Greek), as well as in promoting interchanges with philosophers of science.

FOR NOMINATING COMMITTEE, FROM THE SOCIETY AT LARGE

John Beatty

Associate Professor, University of Minnesota; Department of Ecology, Evolution, and Behavior; Program in the History of Science and Technology; Minnesota Cen-

ter for the Philosophy of Science. Ph.D., Indiana University, 1979. ■ Specialties: history and philosophy of biology. ■ Professional activities: HSS—Council, 1988. Selected publications: "Weighing the Risks: Stalemate in the Classical/Balance Controversy," *Journal of the History of Biology*, 1987, 20:289-319; "Dobzhansky and Drift: Facts, Values, and Chance in Evolutionary Biology," in *The Probabilistic Revolution*, Vol. 2, ed. Lorenz Krüger (MIT, 1987); "Natural Selection and the Null Hypothesis," in *The Latest on the Best: Essays on Evolution and Optimality*, ed. John Dupré (MIT, 1987). ■ Current project: genetics and evolutionary biology in the atomic age, a study of an interconnected set of conceptual, methodological, and social policy issues facing geneticists and evolutionary biologists in the 1940s, 1950s, and 1960s.

Robert E. Kohler

Associate Professor of History and Sociology of Science, University of Pennsylvania. Ph.D., Harvard University, 1965. ■ Specialties: American science; natural and medical sciences in the twentieth century; philanthropy and science. ■ Professional activities: HSS—Committee on *Isis*, 1973-77; Nominating Committee, 1984; Local Arrangements Committee, chair, 1976. Joint Atlantic Seminar—cosponsor. ■ Selected publications—*From Medical Chemistry to Biochemistry* (Cambridge, 1982); articles in *Isis*, *Minerva*, *Bulletin of the History of Medicine*; "Science, Foundations, and American Universities in the 1920s," *Osiris*, 1987, 3:135-164. ■ Current projects: completing a book on foundations and science in the United States; a book on the organization and practice of science in the United States, 1870-1920.

John W. Servos

Associate Professor, Department of History, Amherst College. Ph.D., Johns

Hopkins University, 1979. ■ Specialties: history of chemistry; history of science in America. ■ Professional activities: HSS—Council, 1986-88; Program Committee, cochair, 1987; Committee on Meetings and Programs, chair, 1987-90; Committee on Thematic Meetings, chair, 1987-90; Committee on Education. ■ Selected publications: "The History of Science and the Survey Course in American History," *Perspectives*, Jan. 1987, 25:12-16; "Mathematics and the Physical Sciences in America, 1880-1930," *Isis*, 1986, 77:611-629; "To Explore the Borderland: The Foundation of the Geophysical Laboratory of the Carnegie Institution of Washington," *Historical Studies in the Physical Sciences*, 1983, 14:147-185; "The Industrial Relations of Science: Chemical Engineering at MIT, 1900-1939," *Isis*, 1980, 71:531-549.

Edith Dudley Sylla

Professor of History and Assistant Dean for Research and Graduate Programs, North Carolina State University. Ph.D., Harvard University, 1971. ■ Specialties: history of medieval natural philosophy, mathematics, and logic; transition from late medieval to early modern science; probability theory. ■ Professional activities: HSS—Secretary, 1986-87; Council, 1982-84; Schuman Prize Committee, chair, 1974; Pfizer Award Committee, chair, 1979; Committee on Honors and Prizes, chair, 1981-84; Nominating Committee, 1987; Local Arrangements Committee, 1987. AAAS—Section on History and Philosophy of Science, Nominating Committee, 1984-86; Council Delegate, 1987-88; Chair-elect, 1988-89. ■ Selected publications: "Compounding Ratios: Bradwardine, Oresme, and the First Edition of Newton's *Principia*," in *Transformation and Tradition in the Sciences: Essays in Honor of I. Bernard Cohen*, ed. Everett Mendelsohn (Cambridge, 1984); "Galileo and the Oxford *Calculatores*:"



Edith Dudley Sylla

Analytical Languages and the Mean-Speed Theorem for Accelerated Motion," in *Reinterpreting Galileo*, ed. William A. Wallace (Catholic Univ. Press, 1986); "The Oxford Calculators in Context," *Science in Context*, 1987, 1:257-279.

With deep regret, the Society notes the death of its immediate past president, **William Coleman** of Madison, Wisconsin, on 29 April 1988. Members of the Society who wish to share their sense of sorrow with his widow, Louise Coleman, and their children, Emma and Adam, may write to them at 5701 Lake Mendota Drive, Madison, WI 53705. For those who wish to commemorate Bill's life and scholarship, the Coleman family has asked the Institute for Research in the Humanities at the University of Wisconsin, Madison, to establish a William Coleman Memorial Fund. If the fund grows to \$4,000 or more, it will become an endowment fund, the income of which will be used to support lectures (an annual lecture, if funds permit), possible research grants-in-aid for scholars wishing to use research collections at the University of Wisconsin, and other scholarly activity of which Bill would have been proud. The fund will be administered by the Humanities Institute through the University of Wisconsin Foundation. Gifts are tax deductible. Checks should be made payable to the Foundation and sent to David C. Lindberg, Director, Institute for Research in the Humanities, Old Observatory, 1401 Observatory Drive, University of Wisconsin, Madison, WI 53706.

NEWS OF THE SOCIETY

The History of Science Society is pleased to announce the election of **Stephen G. Brush**, Professor in the Department of History and in the Institute for Physical Science and Technology at the University of Maryland, College Park, as its Vice-President for 1988-89. He will serve as HSS President in 1990 and 1991. More than six hundred Society members, residing on all six inhabited continents, voted. Vice-President Brush may be reached at Institute for Physical Science and Technology, University of Maryland, College Park, MD 20742; (301) 454-2724.

PROGRAMS & PRIORITIES

The Society has recently embarked upon a third phase of a long-range planning process that began over a decade ago. In phase one, HSS evaluated its structure and procedures and adopted a number of changes. Major fund-raising efforts followed, and the Society initiated many new programs to serve its members and reach out to a broader community. Demands on most nonprofit institutions, like ours, always exceed resources—both human and financial—and it is thus necessary to engage in continuous planning. In Raleigh last fall the HSS Council decided that the full range of Society programs should be evaluated as part of an effort to determine priorities for these activities. The Ad Hoc Committee on Programs and Priorities has been charged with this phase-three planning process.

Members of the Committee would like to involve all members of the Society in this process. In the interest of time and efficiency, we decided to place this solicitation notice in the *Newsletter*. We would like you to write us with your views of Society activities. Which do you value most? How do they help you? Which do you value the least? What is the Society not doing that it should? Send your thoughts on these and other questions to Arthur L. Norberg, The Charles Babbage Institute, 103 Walter Library, 117 Pleasant Street S.E., University of Minnesota, Minneapolis, MN 55455; (612) 624-5050.

HSS LECTURE FUNDED

The History of Science Society is pleased and proud to announce a recent gift of \$30,000 from the Joseph H. Hazen Foundation. This contribution will be used to endow the History of Science Society

On 16 July 1988, as a result of changes required by New England Telephone, the telephone number of the **HSS Executive Secretary** will become (508) 831-5712. His address will remain 35 Dean Street, Worcester, MA 01609.

Lecture, which has been presented since 1981 at the HSS annual meeting by one of its most eminent members. This gift insures the future of the lecture and will enable the Society to add a tangible recognition to the honor of being chosen to deliver it.

In making this gift, Mr. Joseph H. Hazen emphasized that he wished to encourage the efforts of the Society to recognize its most distinguished members and to reach out, through this lecture, to the larger scholarly community. In a statement on the significance of the study of the history of science, he stressed the role of science as the "silent revolutionary" that has done more to change the world than most political action: "A single scientific discovery can have a greater influence on society than any law passed by any legislature, and historians of science can do much to help us understand this influence, and hence the world in which we live." In accepting the gift, HSS President Mary Jo Nye expressed her great appreciation to Mr. Hazen for his interest in and support of the Society's work, and promised that its members will continue their efforts to learn more about the role of science in society at large.

Among the distinguished historians of science who have delivered past History of Science Society Lectures are I. Bernard Cohen (Harvard University), Charles C. Gillispie (Princeton University), John L. Heilbron (University of California), Frederic L. Holmes (Yale University), David C. Lindberg (University of Wisconsin), Charles E. Rosenberg (University of Pennsylvania), and Richard S. Westfall (Indiana University).

COMMITTEES & PROGRAMS

During the past year the HSS **Committee on Independent Scholars** has used funds provided by the Rockefeller Foundation to support the scholarly and professional work of many individual members who lack formal institutional affiliations or who hold positions with no prospect of renewal. Besides making travel grants for the Society's 1987 annual meeting in

continued on next page

NEWS—continued

Raleigh and the BSHS-HSS Joint Anglo-American Conference in Manchester this coming summer, the Committee also provided various other types of assistance, including support for two groups for independent scholars: F.I.R.S.T.S. in Cambridge, Massachusetts, and the Columbia History of Science Group in Seattle, Washington. In addition, the Committee made research grants of various kinds to Lindy Biggs, Mary Ellen Bowden, Thomas H. Broman, Alexey Levin, Michael McCarthy, Deborah Coon McGregor, Virginia Quiroga, Connor Sorensen, Mary Terrall, and Martha Ellen Webb.

Individuals interested in applying for future grants-in-aid for research of up to \$2,000 should send eight copies of a proposal consisting of a curriculum vitae, a proposed budget, a brief (three pages or less) statement of the proposed research project, and a letter of recommendation (dealing with the intellectual merits of the project) to the HSS Executive Secretary. Proposals received before **15 September 1988** will be considered soon thereafter.

Travel grants for the HSS Annual Meeting in Cincinnati will be available for independent scholars and may be available for graduate students, pending the outcome of the Society's own fund-raising efforts. Applications for such travel grants must be received by the HSS Executive Secretary by **1 November 1988**. These should include a curriculum vitae and a brief letter with the names of two individuals who may be asked about your scholarly work, the approximate cost of economy-class round-trip airfare to the meeting, and (most important) a statement about your formal participation in the meeting—for example, will you be delivering a paper? have you arranged job interviews?— and how you expect to profit from attending the meeting. Students should also include copies of documentation of their status.

Since its inception in June 1985, the History of Science Society **Visiting Historians of Science Program** has sent leading scholars in our discipline to over forty institutions throughout the United States. These visitors have delivered public lectures, led student seminars, and met with provosts, deans, department heads, chairs of curriculum committees, and others responsible for the academic programs of their institutions. Their visits appear to have done much to stimulate intellectual

and pedagogical interest in the history of science, and in several cases members of the Society have already begun to reap professional benefits from this program. Since March 1988 HSS visitors have spoken on the following sixteen campuses: Birmingham-Southern College (Frederick Gregory), Clemson University (Frederic L. Holmes), East Texas State University (Robert H. Kargon), Idaho State University (William B. Ashworth, Jr.), Kutztown University (Sandra Herbert), Loyola University-New Orleans (Frederick Gregory), Marlboro College (Sally Gregory Kohlstedt), Mount Saint Mary College (Robert H. Kargon), University of North Carolina at Wilmington (Sandra Herbert), Portland State University (Betty Jo Teeter Dobbs), State University of New York College at Oneonta (Thomas P. Hughes), Texas A & M University at Galveston (Ronald L. Numbers), Texas Women's University (Sally Gregory Kohlstedt), Utah State University (Edward Grant), University of Wisconsin, Whitewater

HSS annual meetings have been scheduled through 1991 as follows:

27–30 December 1988, Cincinnati, OH (with AHA)
26–29 October 1989, Gainesville, FL
October 1990, Seattle, WA
October 1991, Madison, WI (with SHOT)

(William B. Ashworth, Jr.), and Wofford College (Edward Grant). Initially funded by the Exxon Educational Foundation, the program continues with support from the Ford Foundation. For further information about the program, contact the HSS Executive Secretary.

The next deadline for applications for HSS sponsorship or endorsement of **Thematic Meetings** is **15 September 1988**. For details, see the April 1988 *Newsletter* or contact John W. Servos, Department of History, Amherst College, Amherst, MA 01002; (413) 542-2035.

Related Societies

The **International Institute of Islamic Science and Technology**, IIIST, was registered as a nonprofit organization in Washington, D.C., in February 1988, with the support of the major Islamic organizations in the United States. The three initial trustees are Seyyed Hossein Nasr (University Professor of Islamic Studies at George Washington University), S. Waqar Ahmed Husaini (Visiting Scholar at the Hoover Institution on War, Revolution, and Peace), and Jamal M. al-Barzinji (Director of the SAAR Foundation). The goals of IIIST include the study and development of an Islamic history, philosophy, and sociology of science and technology. For further information and copies of a brochure explaining the Institute's purposes and proposed activities, contact S. Waqar Ahmed Husaini, Director General of IIIST, 1512 South Sterling Road, Cupertino, CA 95014; or Jamal M. al-Barzinji, 555 Grove Street, Herndon, VA 22707.

The **Lone Star History of Science Group** held its inaugural meeting on 25 March 1988, in Austin, Texas. The group seeks to promote the history of science in Texas and the Southwest, mainly by convening each spring for dinner and an invited address. At this meeting Robert Palter

spoke on his recent work on Newton's natural philosophy, and the group adopted a constitution prohibiting bylaws, officers, or dues. The next meeting will be held in Houston in March or April 1989. For more information contact Albert Van Helden, Department of History, Rice University, Houston, TX 77251.

Future annual meetings of related societies have been scheduled as follows.

American Association for the History of Medicine

27–30 April 1989, Birmingham, AL
10–13 May 1990, Baltimore, MD
1–4 May 1991, Cleveland, OH

Philosophy of Science Association (Biennial Meeting)

27–30 October 1988, Evanston, IL

Society for the History of Technology
20–23 October 1988, Wilmington, DE
13–15 October 1989, Sacramento, CA (tentative)

Society for the Social Studies of Science
16–19 November 1988, Amsterdam, The Netherlands
late October or early November 1989, Irvine, CA

Officers and Committee Chairs of Related Societies for 1988

American Association for the History of Medicine

President: Guenter B. Risse, Department of the History and Philosophy of Health Sciences, University of California, San Francisco, CA 94143; (415) 476-2766.

Vice-President: John C. Burnham, Department of History, Ohio State University, Columbus, OH 43210; (614) 292-5465.

Immediate Past President: Jeanne L. Brand, International Programs Branch, Extramural Programs, National Library of Medicine, Bethesda, MD 20894; (301) 496-6131.

Secretary-Treasurer: Edward C. Atwater, Department of Medicine, University of Rochester Medical Center, Rochester, NY 14642; (716) 275-2903.

Philosophy of Science Association

President: Arthur Fine, Department of Philosophy, Northwestern University, Brentano Hall, Evanston, IL 60201.

President-elect: Thomas S. Kuhn, Department of Linguistics and Philosophy, Massachusetts Institute of Technology, 20D-105, Cambridge, MA 02139.

Executive Secretary: Peter Asquith, Department of Philosophy, Michigan State University, 18 Morrill Hall, East Lansing, MI 48824.

Program Chair: Jarrett Leplin, Department of Philosophy, University of North Carolina, Greensboro, NC 27412.

Proceedings Editor: Arthur Fine, Department of Philosophy, Northwestern University, Brentano Hall, Evanston, IL 60201.

Newsletter Editor: Paul C. L. Tang, Department of Philosophy, California State University, 1250 Bellflower Boulevard, Long Beach, CA 90840.

Editor of Philosophy of Science: Robert E. Butts, Department of Philosophy, Talbot College, University of Western Ontario, London, ONT N6A 3K7, Canada.

Society for the History of Technology

President: Bruce Sinclair, Institute for the History and Philosophy of Science and Technology, Victoria College, Room 316, University of Toronto, Toronto M5S 1K7 Canada; (416) 978-5159.

Vice-President: Merritt Roe Smith, Program in Science, Technology, and Society, Massachusetts Institute of Technology, E51-228, Cambridge, MA 02139; (617) 253-4008.

Secretary: Alex Roland, Department of History, Duke University, Durham, NC 27706; (919) 684-2758.

Treasurer: Russell I. Fries, Institute for Defense Analysis, 1801 North Beauregard Street, Alexandria, VA 22311; (703) 845-2405.

Editor of Technology and Culture: Robert C. Post, National Museum of American History, Smithsonian Institution, Washington, DC 20560; (202) 357-3301.

Chair, Awards Committee: W. David Lewis, Department of History, Auburn University, Auburn, AL 36830; (205) 826-4360.

Chair, Editorial Committee: Melvin Kranzberg, Department of Social Studies, Georgia Institute of Technology, Atlanta, GA 30332; (404) 894-6835.

Chair, Finance Committee: Arthur P. Mollala, Department of the History of Science and Technology, National Museum of American History, Smithsonian Institution, Washington, DC 20560.

Chair, Nominating Committee: Virginia Dawson, 3290 Glencairn Road, Shaker Heights, OH 44122; (216) 368-4106.

Chair, Sites Committee: P. Thomas Carroll, Department of Science and Technology Studies, Rensselaer Polytechnic University, Troy, NY 12181; (518) 266-8508.

SHOT Special Interest Group Chairs

Albatrosses (Aeronautics and Astronautics): W. David Lewis, Department of History, Auburn University, Auburn, AL 36830; (205) 826-4360.

Communications Interest Group: Pamela Lurito, Box 181, MIT Branch, Cambridge, MA 02139; (617) 437-0260.

Jovians (Electrical Technology): W. Bernard Carlson, Division of Humanities, School of Engineering and Applied Science, University of Virginia, Charlottesville, VA 22901; (804) 924-6113.

Military History Interest Group: Barton C. Hacker, Department of History,

Oregon State University, Corvallis, OR 97331.

Pelicans (Chemical Technology): Jeffrey L. Sturchio, Archives and Records Management Services, AT&T Bell Laboratories, WVA 102, 5 Reinman Road, Warren, NJ 07060; (201) 756-1591.

Technology Museum Interest Group (TEMSIG): Steven Lubar, National Museum of American History, Room 5014, Smithsonian Institution, Washington, DC 20560.

Technology Studies and Education: Roger Simon, Department of History, Lehigh University, Maginnes Hall #9, Bethlehem, PA 18015; (215) 758-3368.

Women in the History of Technology (WITH): Rachel Maines, Public and Applied History, 10F Gaslight Village, Ithaca, NY 14850; (607) 257-2859.

Society for the Social Studies of Science

President: Arie Rip, University of Twente, De Boerderij, P.O. Box 217, NL-7500 AE Enschede, The Netherlands.

Immediate Past President: David Edge, 25 Gilmour Road, Edinburgh EH16 5NS, Scotland, United Kingdom.

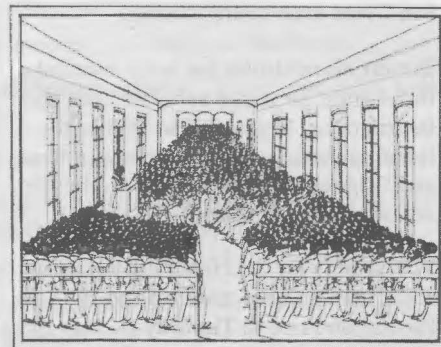
Secretary-Treasurer: Wesley Shrum, Department of Sociology, Louisiana State University, Baton Rouge, LA 70803.

Chair, Publications Committee: Mary Frank Fox, 3042 Survey Research Center, Institute for Social Research, University of Michigan, Ann Arbor, MI 48106-1248.

Chair, Future Meetings Committee: Ron Johnston, TASC—University of Wollongong, P.O. Box 1144, Wollongong, NSW 2500, Australia.

Chair, Nominations Committee: Helga Nowotny, European Centre, Bergasse 17, A-1090 Wien, Austria.

Chair, Liaison Committee: Ned Woodhouse, Department of Science and Technology Studies, Rensselaer Polytechnic Institute, Troy, NY 12180.



Awards, Appointments & Honors

Recent books in history of science have been honored with the award of the following **Pulitzer Prizes** for 1987: in History, to **Robert V. Bruce**, for *The Launching of Modern American Science, 1846-1876* (Knopf); and in General Nonfiction, to **Richard Rhodes**, for *The Making of the Atomic Bomb* (Simon & Schuster). *The Care of Strangers: The Rise of America's Hospital System* (Basic) by **Charles E. Rosenberg** was a runner-up in the History category.

Alan Beyerchen has been appointed to a three-year term on the Committee on Scientific Freedom and Responsibility of the American Association for the Advancement of Science.

James R. Fleming has been appointed Assistant Professor of Science and Technology Studies at Colby College, Waterville, Maine.

Robert I. Goler, author of *The Healing Arts in Early America* and coeditor of *Early American Medicine: A Symposium*, has been awarded the Medical Society of the State of New York's annual award for excellence in medical writing.

John L. Heilbron has been elected a Fellow of the American Academy of Arts and Sciences.

Lynn S. Joy has been appointed Associate Professor of Philosophy and Associate Professor of History at the University of Notre Dame. She will be a fellow of the Bunting Institute in Cambridge, Massachusetts, during 1988-89.

Bruno Latour and **Steven Shapin** have been appointed professors in the Department of Sociology at the University of California, San Diego. Latour will teach at San Diego each spring quarter.

Everett Mendelsohn has been awarded a travel grant for senior scholars from the International Research and Exchanges Board to participate in meetings in Brno and Prague, Czechoslovakia, on the life and work of Jan Evangelista Purkyně.

The Society for the History of Alchemy and Chemistry has awarded the 1987 Partington Prize to **Timothy D. Moy** of

the University of California, Berkeley, for his essay "A Chemical Mediator: Emil Fischer's Role as Liaison during the First World War."

Martin Rudwick has been awarded the Founder's Medal of the Society for the History of Natural History, and he is the first recipient of the Sue Tyler Friedman Medal of the Geological Society (London), recently established "for distinguished contribution to the recording of the history of geology" by scholars chosen "on a world-wide basis and without regard to nationality considerations."

Bruce Sinclair has been appointed Melvin Kranzberg Professor of the History of Technology at Georgia Institute of Technology.

Michael M. Sokal has been awarded Worcester Polytechnic Institute's Trustees' Award for Outstanding Creative Scholarship.

Graduate Programs

The **University of California, San Diego**, announces a graduate program in Science Studies, sponsored by the Departments of History, Sociology, and Philosophy, to begin in the fall of 1989. The program is designed to encourage students to explore the ways in which historical, sociological, and philosophical approaches to the understanding of scientific knowledge, past and present, might be integrated. Although students will be required to focus their work on the history, the sociology, or the philosophy of science, the common core of the program will be a seminar led by faculty from all three departments. The program faculty will include Paul Churchland, Gerald Doppelt, Philip Kitcher, Bruno Latour, Martin Rudwick, Andrew Scull, Steven Shapin, and Robert Westman; further appointments will be made. Students will be admitted by the department in which they wish to focus their work; historians should apply in the first instance to the Graduate Coordinator, Department of History C-004, UCSD, La Jolla, CA 92093; (619) 534-3614. The deadline for applications is **15 January 1989**.

Prize Competitions

The **Singer Prize** is awarded by the British Society for the History of Science every two years to the writer of an unpublished essay based on original research into any aspect of the history of science or mathematics. All candidates must be under 35 years of age on the closing date for entries, which for the present competition is **31 October 1988**, or shall by that date be within five years of first registering for a postgraduate degree in the history of science or some related discipline. Essays must not exceed 6,000 words (excluding footnotes), must be fully documented, typewritten with double-line spacing, and submitted in English. The total amount available for the prize is £250, which may be awarded to the writer of one outstanding essay or divided between two or more entrants. Further details may be obtained from the Hon. Secretary, J. V. Golinski, Churchill College, Cambridge CB3 0DS, England, to whom entries must also be sent.

The American Association for the Advancement of Science presents annually the **Award for Scientific Freedom and Responsibility** of \$1,000, to honor scientists and engineers whose exemplary actions, often taken at significant personal cost, have served to foster scientific freedom and responsibility. A candidate for the award is selected by a panel of judges appointed by the AAAS Board of Directors. The deadline is **31 July 1988**. Nominations and requests for information should be sent to American Association for the Advancement of Science, 1333 H Street, NW, Room 1101, Washington, DC 20005; (202) 326-6400.

The **AAAS/Westinghouse Award for Public Understanding of Science and Technology** of \$2,500, sponsored by the Westinghouse Electric Fund and the American Association for the Advancement of Science, annually honors working scientists and engineers in all disciplines who are not members of the media, but who make outstanding contributions to public understanding of science and technology. The deadline is **1 October 1988**. Nominations and requests for information should be sent to Committee on Public Understanding of Science and Technology, American Association for the Advancement of Science, 1333 H Street, NW, Washington, DC 20005; (202) 326-6600.

History of Science Society Annual Meeting

27-30 December 1988

Westin Hotel
Cincinnati, Ohio

Since the Society is meeting jointly with the American Historical Association in Cincinnati, registrants for the HSS Annual Meeting will receive the combined AHA-HSS program. There will be no changes in the program as printed. This is the program that will be available at the meeting.

1988 Program Committee

Shirley A. Roe, University of Connecticut
Joan L. Richards, Brown University

1988 Local Arrangements Committee

William Jensen, University of Cincinnati
John McEvoy, University of Cincinnati
Alan Rocke, Case Western Reserve University

Except for joint sessions with the American Historical Association or unless otherwise noted, all History of Science Society sessions will be held on the third floor of the Westin Hotel, Fountain Square.

The History of Science Society wishes to express its gratitude to the University of Cincinnati for providing audiovisual equipment.

Registration and Information

Gibson Foyer

Tuesday, 4:00 p.m.-9:00 p.m.

Wednesday and Thursday, 8:00 a.m.-5:00 p.m.

Friday, 8:00 a.m.-12:00 noon

Book Exhibit

Presidential Ballroom III

Tuesday, 6:00 p.m.-9:00 p.m.

Wednesday and Thursday, 8:00 a.m.-5:00 p.m.

Friday, 8:00 a.m.-12:00 noon

Arranged by Virginia P. Dawson, Case Western Reserve University

Job Exchange

Registrants for the History of Science Society Meeting may use the job registration service of the American Historical Association.

Tuesday, 27 December

HSS Executive Committee Meeting

11:00 a.m.-2:00 p.m., HSS Presidential Suite

HSS Council Meeting

2:00 p.m.-10:00 p.m., McKinley

Opening Reception

9:00 p.m.-11:00 p.m., Taft Ballroom II

Wednesday, 28 December

Meeting of the HSS Committee on Meetings and Programs

8:00 a.m.-9:00 a.m., Grant

Meeting of the HSS Committee on Research and the Profession

8:00 a.m.-9:00 a.m., Harding

1. American Agricultural Science and Its Public

9:00 a.m.-11:30 a.m., Hayes/Harrison

Organizer: Richard C. Sawyer, University of Wisconsin-Madison

Chair: Daniel J. Kevles, California Institute of Technology

Breeders, Geneticists, and Hybrid Corn: Where's the Science? Deborah Fitzgerald, Massachusetts Institute of Technology

To Make a Spotless Orange: Goals and Science in California's Department of Biological Control: Richard C. Sawyer

Agricultural Scientists, Nature Study, and the Development of a Lower-Level Science Curriculum in the United States, 1900-1920: Barbara Kimmelman, American Institute of Ultrasound in Medicine

Comment: Daniel J. Kevles

2. Medieval and Renaissance Psychology

9:00 a.m.-11:30 a.m., Taft Ballroom II

Organizer: Peter G. Sobol, University of Wisconsin-Madison

Chair: Joan Cadden, Kenyon College

Dividing the Soul: Faculties and Organs from Dante to Descartes: Katharine Park, Wellesley College

Animal Thoughts, Animal Dreams: Peter G. Sobol

Late Medieval Theologians' Epistemologies and Aristotle Commentaries: Reconsidering Nicole Oresme: Katherine Tachau, University of Iowa

3. Studies in the Mathematization of Physics

9:00 a.m.-11:30 a.m., Garfield

Organizer: Craig Fraser, University of Toronto

Chair: Thomas L. Hankins, University of Washington

Huygens and the Mathematization of Physics: Joella G. Yoder, Renton, Washington

Lagrange's Conception of Applied Mathematics: Craig Fraser

Energy and the Mathematization of Electrodynamics in Mid-Nineteenth-Century Germany: Thomas Archibald, Acadia University

Comment: Norton Wise, University of California, Los Angeles

4. Science, Technology, and Law: Coping with Novel Risks

9:00 a.m. - 11:30 a.m., Taft Ballroom I

Organizer: Gilbert Whittemore, Harvard University

Chair: Everett Mendelsohn, Harvard University

Insuring Against Ultra-Hazardous Risks: Commercial Nuclear Power and the Price-Anderson Act: John W. Johnson, University of Northern Iowa*Responding to the New Genetics: Recombinant DNA Research and Government Regulation:* Edward J. Larson, University of Georgia*Alerting the Public to Contamination: Radiation Protection Guides for Nuclear Fallout:* Gilbert Whittemore

Comment: Everett Mendelsohn

5. Works in Progress: Astrophysics in the Nineteenth and Twentieth Centuries

9:00 a.m. - 10:00 a.m., McKinley

Chair: Stephen G. Brush, University of Maryland, College Park

Searching for Other Solar Systems: The Period Prior to 1916: Michael J. Crowe, University of Notre Dame*The Search for Solar Systems from Van de Kamp to the Present:* Steven J. Dick, U.S. Naval Observatory*Early Stellar Models and the Foundations of Astrophysics: Eddington and the Problem of Cepheid Variable Stars:* Joann Eisberg, Harvard University**6. Fifty Years After Merton: New Directions in Seventeenth-Century Science and Religion****Joint session with the American Historical Association and the American Society of Church History**

9:30 a.m. - 11:30 a.m., Convention Center, South 230

Organizer: Edward B. Davis, Messiah College

Chair: Barbara Shapiro, University of California, Berkeley

Opening Remarks: The Merton Thesis Today: Barbara Shapiro*The Uses of Voluntarist Theology in Seventeenth-Century Science:* Edward B. Davis*Atheism and the Seventeenth-Century Mind: The Case of Robert Boyle:* Michael Hunter, University of LondonComment: Mordechai Feingold, Boston University
Robert K. Merton, Columbia University**7. The State, the Military, and the Development of Technology: Cross-National Perspectives****Joint session with the American Historical Association**

9:30 a.m. - 11:30 a.m., Convention Center, North 211

Organizer: W. Bernard Carlson, University of Virginia

Chair: Josef Konvitz, Michigan State University

The Militarization of Technology in France: The Case of Electrotechnics, 1845-1914: Andrew Butrica, C.N.R.S., Center for Research in the History of Science and Technology, Paris*The Russian Military and Electrification:* Jonathan Coopersmith, Hoover Institution*Advancing Shortwave Radio at the Naval Research Laboratory:* Bruce Helevy, Stanford University

Comment: I. B. Holley, Duke University

8. Works in Progress: North American Geology and Meteorology

10:00 a.m. - 11:30 a.m., McKinley

Chair: Rachel Laudan, University of Hawaii

The Discovery of Chaos and the Use of Computers in Meteorology: Frederick Nebeker, Princeton University*Storms, Strikes, Indian Uprisings, and Other Threats to Domestic Tranquillity: The U.S. Weather Service and the Telegraph, 1870-1891:* James R. Fleming, American Meteorological Society*The Noachian Deluge in Nineteenth-Century American Geology and Theology:* Rodney L. Stiling, University of Wisconsin-Madison*Controversy in Canadian Geology: Why the Royal Society Declined to Publish John William Dawson's Bakerian Lecture:* Susan Sheets-Pyenson, Concordia University**Meeting of the HSS Committee on Honors and Prizes**

11:30 a.m. - 12:30 p.m., Harding

HSS Business Meeting

1:30 p.m. - 2:30 p.m., Presidential Ballroom II

Meeting of the HSS Committee on Education

2:30 p.m. - 5:00 p.m., Grant

9. Science and Gender in Liberal Arts Colleges**Joint session with the American Historical Association**

2:30 p.m. - 4:30 p.m., Convention Center, South 230

Organizers: Pamela E. Mack, Clemson University
Miriam R. Levin, University of Massachusetts, Amherst
Margaret W. Rossiter, Cornell University

Chair: Hugh Hawkins, Amherst College

The Transformation of Science Education at Mount Holyoke in the Gilded Age: Miriam R. Levin*Female Mentors in a Male Discipline: Physiology in the Women's Colleges, 1900-1940:* Toby Appel, University of Maryland, Baltimore County*Money and Men at the Women's Colleges, 1945-1965:* Margaret W. RossiterComment: Patricia Ann Palmieri, University of Cincinnati
Hugh Hawkins**10. A Smorgasbord of Chemicals: Scientific Awareness, Public Awareness, and Human Food****Joint session with the American Historical Association**

2:30 p.m. - 4:30 p.m., Convention Center, South 230

Organizer: Alan I. Marcus, Iowa State University

Chair: John Parascandola, National Library of Medicine

The Use of Chemicals in Food Products: The Delaney Committee Hearings, 1950-1952: Suzanne R. White, Food and Drug Administration

An Unanticipated Aftertaste: Cancer and DES in Beef: Alan I Marcus

Comment: Thomas R. Dunlap, Virginia Polytechnic Institute and State University
John Parascandola

11. Science in Geneva in the Eighteenth Century

2:30 p.m. - 5:00 p.m., Garfield

Organizers: Virginia P. Dawson, Case Western Reserve University
James Evans, University of Puget Sound

Chair: Shirley A. Roe, University of Connecticut

Charles Bonnet and the Art of Observation: Virginia P. Dawson

Jean-André De Luc and Horace-Bénédict de Saussure on Meteorology: Theodore Feldman, University of Southern Mississippi

Le Sage and His Followers on Gravitation and Discrete Gases: James Evans

12. Science and Politics in Twentieth-Century Germany

2:30 p.m. - 5:00 p.m., Taft Ballroom II

Organizer: Hans-Georg Schneider, University of Oxford

Chair: John Heitman, University of Dayton

Helmholtz, Science, and Politics in Germany, 1860-1900: David Cahan, University of Nebraska

Electricity and Politics in Germany during World War I: Edmund N. Todd, University of New Haven

Overcoming the Past: The Search for a Science Policy in Postwar West Germany: David Cassidy, Boston University

"Freedom of Science" and "Academic Self-Administration" in West Germany—A Plea for a Second Look: Hans-Georg Schneider

13. The Fiftieth Anniversary of Nuclear Fission: Perspectives

2:30 p.m. - 5:00 p.m., Taft Ballroom I

Organizer: Lawrence Badash, University of California, Santa Barbara

Chair: Alan D. Beyerchen, Ohio State University

Lise Meitner and Nuclear Fission: Ruth Sime, Sacramento City College

Neutron Research in Italy: Fission and the Future: Barbara Reeves, Ohio State University

Nuclear Fission: Early Reaction to the Discovery: Lawrence Badash

14. The Professionalization of Botany and the Emergence of Modern Biology

2:30 p.m. - 5:00 p.m., Hayes/Harrison

Organizers: Joel B. Hagen, University of Maryland, College Park
Nancy Slack, Russell Sage College

Chair: Jane Maienschein, Arizona State University

California Botany, 1860-1920, and the East-West Connection: Nancy Slack

The Bay Area Biosystematists and the Emergence of Evolutionary Botany: Vassiliki Smocovitis, University of Florida

Henry Chandler Cowles and the Origins of the Chicago School: Eugene Cittadino, University of California, Berkeley

Creating a Plant Ecology: Frederic Clements at the Carnegie Institution of Washington: Joel Hagen

Comment: Jane Maienschein

15. Works in Progress: Islamic and Early Modern Science

2:30 p.m. - 4:10 p.m., McKinley

Chair: Margaret J. Osler, University of Calgary

An Edition of the Fourteenth-Century Algebra by Dardi of Pisa: Warren Van Egmond, Arizona State University

Islamic Atomism and Discrete Space: Alnoor Dhanani, Harvard University

Remarks on the Ancestry of Peurbach's Planetary Models: Michael H. Shank, University of Wisconsin-Madison

Why It Is So Hard to Find a Scientist Born After 1600 Who Is Not Either a Copernican or a Priest: Howard Margolis, University of Chicago

A Reappraisal of the Role of the Universities in the Scientific Revolution: John Gascoigne, University of New South Wales

16. Works in Progress: Enlightenment Science and Method

4:10 p.m. - 5:30 p.m., McKinley

Chair: Frederick Gregory, University of Florida, Gainesville

James Gregory on Optics: The Mathematization of Optical Images in Context: Antoni Malet, Princeton University

The Motivations of MacLaurin's Attitude Toward Rigor: Erik Sageng, Princeton University

The Credible Witness: Case Histories and Public Experiments as Evidence in the Inoculation Debates of the 1720s: Andrea Rusnock, Princeton University

The Impact of John Mayow's Works on Future Scientific Chemical Discoveries: Elsa L. Gonzalez, University of Chicago

Meeting of the HSS Women's Committee

5:00 p.m. - 6:00 p.m., Taft Ballroom I

History of Science Resources in Cincinnati

5:00 p.m. - 8:00 p.m., Lloyd Library, 917 Plum Street, downtown Cincinnati

An exhibit and wine and cheese reception, jointly sponsored by the History of Health Sciences Library of the University of Cincinnati, the Lloyd Library (history of botany and pharmacy), and the Oesper Collection in the History of Chemistry of the University of Cincinnati. In addition to exhibits on the resources of the three libraries, guided tours of the Lloyd Library will be available throughout the entire reception.

Dinner for the Isis Editorial Board

7:30 p.m.-9:30 p.m., McKinley

Cash Bar

8:00 p.m.-10:00 p.m., Gibson Foyer

Thursday, 29 December**Meeting of the HSS Committee on Independent Scholars**

7:30 a.m.-9:00 a.m., Grant

Meeting of the HSS Committee on Publications

8:00 a.m.-12:00 noon, Harding

17. The History of Science and Technology in the European History Curriculum of Secondary Schools

9:00 a.m.-11:30 a.m., Taft Ballroom II

Organizer and chair: Martha H. Verbrugge, Bucknell University

The Use and Abuse of the Western Scientific Heritage in European History Textbooks: Frederick Gregory, University of Florida, Gainesville*The Value and Difficulties of Teaching the History of Science and Technology in Secondary Schools:* Henry J. Steffens, University of VermontComment: Alice Levine Baxter, Loomis Chaffee School
Michael Mahoney, Princeton University**18. Writing Biography in the History of Science: Feminist Issues and Perspectives**

9:00 a.m.-11:30 a.m., Taft Ballroom I

Organizer and chair: Ann Shteir, York University

"Breathing Life into the Cold Marble of Male Science": Clémence Royer and Feminist Science: Joy Harvey, Virginia Polytechnic Institute and State University*Writing Lives in Anthropology:* Alice Fletcher: Joan Mark, Harvard University*Assertive or Aggressive: Rewriting a Biography for Hertha Ayrton:* Marilyn Bailey Ogilvie, Oklahoma Baptist University*A Legacy of Suffragette Tactics in Science: The Career of Dorothy Wrinch:* Pnina Abir-Am, Harvard University

Comment: Donna Haraway, University of California, Santa Cruz

19. Works in Progress: Zoology and Botany in the Nineteenth and Twentieth Centuries

9:00 a.m.-10:30 a.m., Garfield

Chair: Mary P. Winsor, University of Toronto

Biological Distributions in a Single Glance: Jane Canerini, University of Wisconsin-Madison*Creating Culture in Nineteenth-Century Amsterdam: The Founding of the Koninklijk Zoologisch Genootschap "Natura Artis Magistra":* Donna C. Mehos, University of Pennsylvania*An Epigenetic Theory of Heredity: John Adam Ryder's Opposition to August Weismann's Germ Plasm Theory of Heredity, 1889-1895:* Theodore Greenfield, University of Minnesota*Evolutionary Botany in the Twentieth Century:* Keith Erickson, Indiana University**20. Electricity in History: A Session in Memory of Bern Dibner Joint session with the American Historical Association**

9:30 a.m.-11:30 a.m., Convention Center, South 222/232

Organizer: I. Bernard Cohen, Harvard University

Chair: Mary Jo Nye, University of Oklahoma

Benjamin Franklin and Newtonian Philosophy: History of Science and the History of Ideas: I. Bernard Cohen*The Electrocution of Natural Philosophy in the Age of Reason:* John Heilbron, University of California, Berkeley*The Ambiguous Frog: The Philosophical Significance of the Galvani-Volta Controversy:* Marcello Pera, University of Lucca**21. Child Health and Child Care in Early Twentieth-Century America**

Joint session with the American Historical Association

9:30 a.m.-11:30 a.m., Convention Center, South 230

Organizers: Naomi Rogers, Brown University
Susan E. Lederer, Pennsylvania State University

Chair: William J. Reese, Indiana University

Science, Politics, and Professional Interest: Infant Mortality and Urban Pure Milk Reform: Richard Meckel, Brown University*Orphans and Doctors: The Search for Childhood Vaccines in Early Twentieth-Century America:* Susan E. Lederer*Guarding the Nursery: Babies, Germs, and the New Public Health:* Naomi Rogers

Comment: Morris Vogel, Temple University

22. Enforced Migration and Scientific Change: German-Speaking Scientists after 1933

Joint session with the American Historical Association

9:30 a.m.-11:30 a.m., Convention Center, West 251

Organizer: Mitchell G. Ash, University of Iowa

Chair: Fritz K. Ringer, University of Pittsburgh

The Birth of a Scientific Community: Emigrés at the Institute for Advanced Study, 1933-1945: Laura Smith Porter, College of the Holy Cross*Hannah Arendt and Emmy Noether: Female Refugee Scholars and the Reception of Their Ideas in America:* Karen Greenberg, Bard College*Emigré German Psychologists after 1933: Discipline Structures and Science Transfer:* Mitchell G. Ash

Comment: Paul K. Hoch, University of Warwick

23. Works in Progress: Darwin and Evolutionary Biology

10:00 a.m. - 11:30 a.m., Garfield

Chair: Muriel L. Blaisdell, Miami University, Ohio

The Evolution of Thomas Henry Huxley's Evolutionary Views: Sherrie L. Lyons, University of Chicago*Charles Darwin as Laboratory Director*: Janet Bell Garber, University of California, Los Angeles*The Conundrum of the Honey Bees: One Impediment to Darwin's Publishing*: Frederick R. Prete, University of Chicago*Loren Eiseley, Charles Darwin, and the Mysterious Edward Blyth*: Gale E. Christianson, Indiana State University**Lunch for the Osiris Editorial Board**

12:00 noon - 2:00 p.m., Grant

Forum for the History of Science in America

1:30 p.m. - 2:30 p.m., McKinley

24. The Education and Professionalization of Physicians, 1800-1950**Joint session with the American Historical Association**

2:30 p.m. - 4:30 p.m., Convention Center, South 222/232

Organizer: Thomas N. Bonner, Wayne State University

Chair: Ronald L. Numbers, University of Wisconsin-Madison

National Differences in Educating Physicians, 1800-1914: The Importance of National Factors in Professional Education in Britain, France, Germany, and the United States: Thomas N. Bonner*The Tension Between Theory and Practice in German Medical Education 1800-1850*: Arleen Tuchman, Vanderbilt University*The Professionalization of Academic Medicine in the United States in the Late Nineteenth and Twentieth Centuries*: William Rothstein, University of Maryland, Baltimore County

Comment: John Harley Warner, Yale University

25. Science and Cultural Imperialism**Joint session with the American Historical Association**

2:30 p.m. - 4:30 p.m., Convention Center, South 221/231

Organizer: Mark Walker, Union College

Chair: Paul Forman, National Museum of American History, Smithsonian Institution

The Politics of Excellence: The Nobel Prize in the Service of Cultural Imperialism: Robert Marc Friedman, Norwegian Research Council (NAVF) and Uppsala University*"Civilizing Rio": British Neo-Colonialism and the Public Health Campaign in Rio de Janeiro, 1880-1910*: Teresa Ann Meade, Union College*Greater Germany, Cultural Imperialism, and the Myth of the German Atomic Bomb*: Mark Walker

Comment: Lewis Pyenson, University of Montreal

26. Stoic and Epicurean Themes in Early Modern Science

2:30 p.m. - 5:00 p.m., B. Harrison

Organizer: Margaret J. Osler, University of Calgary

Chair: Peter R. Dear, Cornell University

Stoic Contributions to Early Modern Science: Peter Barker, Virginia Polytechnic Institute and State University*The Epicurean Soul in Late Seventeenth-Century Thought*: John Wright, University of Windsor*Fortune, Fate, and Divination: Gassendi's Voluntarism and the Baptism of Epicurus*: Margaret J. Osler

Comment: Peter R. Dear

27. Technology and the Emergence of a Culture of Consumption in America

2:30 p.m. - 5:00 p.m., McKinley

Organizer: W. Bernard Carlson, University of Virginia

Chair: Susan Smulyan, Brown University

The Metropolitan Newspaper and the Emerging Culture of Consumption: Charles A. Dana and Joseph Pulitzer as Examples: Janet E. Steele, University of Virginia*Missing Consumer Culture: Thomas A. Edison and the Development of Motion Pictures*: W. Bernard Carlson*Toy Technology in a Culture of Consumption*: Lawrence F. Greenfield, Ohio State University

Comment: Michael L. Smith, University of California, Davis

28. Science and the Disenchantment with Progress between the World Wars

2:30 p.m. - 5:00 p.m., Garfield

Organizer: P. Thomas Carroll, Rensselaer Polytechnic Institute

Chair: Robert E. Kohler, University of Pennsylvania

The Science Holiday Episode: British and American Reactions: Lindy Biggs, Oxford, England, and P. Thomas Carroll*Ethical Underpinnings of Scientific Essayism between the Wars*: Peter John, University of California, San Diego*Concerns about Science and the Interwar Reception of Holism*: Linda M. Strauss, Rensselaer Polytechnic Institute

Comment: Peter J. Kuznick, American University

29. Theory and Practice in Biological Systematics

2:30 p.m. - 5:00 p.m., Harding

Organizer: Mary P. Winsor, University of Toronto

Chair: David L. Hull, University of Wisconsin-Milwaukee

Linnaeus and the Cortex-Medulla Theory: The Metamorphosis of an Idea: Peter F. Stevens, Harvard University

Peter Simon Pallas on Affinity, Descent, and the Mammalian Table of Organization: James L. Larson, University of California, Berkeley

From Transcendental Anatomy to Evolutionary Taxonomy: Pamela M. Henson, Smithsonian Institution Archives

Comment: Mary P. Winsor

30. Works in Progress: Social Science and Social Theory

2:30 p.m. - 4:10 p.m., Hayes/Harrison

Chair: Robert A. Nye, University of Oklahoma

Engineering, Technocracy, and the Quantification of Public Life in Nineteenth-Century France: Theodore M. Porter, University of Virginia

Science as the Basis of Social Policy in the Work of Clémence Royer: Sara Joan Miles, Wheaton College

The Binet-Simon Test of Intelligence: Text and Context: John Carson, Princeton University

Evolution's Missing Partner: Anarchism and the Sociopolitical Foundations of James's Pragmatism: Deborah J. Coon, Smithsonian Institution

The Construction of John Bowlby's Mother-Infant Attachment Theory: Barbara D. DeBaryshe, University of North Carolina-Greensboro and Oregon Social Learning Center, and Eric Hoffman, State University of New York at Stony Brook

31. Works in Progress: Philosophy of Science and Historical Methodology

4:10 p.m. - 5:30 p.m., Hayes/Harrison

Chair: John Beatty, University of Minnesota

Was Copernicus's Realism a Mistake? André Goddu, University of Notre Dame

A Sociological Interpretation of Incommensurability Between Scientific Paradigms: The Case of Galileo: Mario Biagioli, University of California, Los Angeles

Evolutionary Biology and Early Medieval Dynastic Decisions: Jerome Kroll and Bernard Bachrach, University of Minnesota

The Unity of Science and Poetry in Niels Bohr's Epistemology of the 'Unity of Knowledge': Peter A. Degen, Drew University

The History of Science Society Lecture

5:30 p.m. - 6:30 p.m., Taft Ballroom

Introduction: Daniel J. Kevles, California Institute of Technology

Lecture: *Parlors and Primers: Education in Science in the Nineteenth Century*: Sally Gregory Kohlstedt, Syracuse University



HSS Cocktail Party

6:30 p.m. - 7:30 p.m., Gibson Foyer

HSS Annual Banquet

7:30 p.m. - 9:30 p.m., Presidential Ballroom I and II

Graduate Student Party

9:30 p.m. - 11:30 p.m., McKinley

Open to HSS student members and their guests

Friday, 30 December

32. The Development of Secondary Science Education in America

9:00 a.m. - 11:30 a.m., Garfield

Organizer: Philip J. Pauly, Rutgers University

Chair: John C. Burnham, Ohio State University

Secondary School Education in Physics, 1870-1930: Kathryn Olesko, Georgetown University

The Role of the Chemical Foundation and the American Chemical Society in Secondary Education, 1920-1940: David Rhees, American Philosophical Society

What Would Scopes Have Taught the Rest of the Year? Hopes and Fears in Biology Education, 1880-1930: Philip J. Pauly

Comment: Stephen G. Brush, University of Maryland, College Park

33. Instrumentation in Twentieth-Century Science and Technology

9:00 a.m. - 11:30 a.m., McKinley

Organizer: Joan Lisa Bromberg, Laser History Project, Massachusetts Institute of Technology, and Harvard University

Chair: Allan Needell, National Air and Space Museum

Therapeutic Ultrasound: William Fry as Scientific Misfit and Professional Leader: Ellen B. Koch, University of Pennsylvania

The Uses of Scientific Instruments in the Formulation of Research Objectives: Yakov M. Rabkin, University of Montreal

Lasers: The Anatomy of a "Hot Topic": Joan Lisa Bromberg

Comment: Merriley Borell, Tufts University School of Medicine

34. Science and Patronage in the Twentieth Century

9:00 a.m. - 11:30 a.m., Taft Ballroom II

Organizer: Robert E. Kohler, University of Pennsylvania

Chair: John W. Servos, Amherst College

James Franck and Private Support for Pure Science: Alan D. Beyerchen, Ohio State University

Vannevar Bush and OSRD: The Business of Science in World War II: Larry Owens, University of Massachusetts, Amherst

Science Manager: Augustus Trowbridge in Europe, the 1920s: Robert E. Kohler

35. Works in Progress: Science and Institutions in Twentieth-Century America

9:00 a.m. - 10:00 a.m., Hayes/Harrison

Chair: P. Thomas Carroll, Rensselaer Polytechnic Institute

Early X-Ray Research at Physical Laboratories in the United States, circa 1900: A Cross-Sectional Analysis of American Physics: Jun Fudano, University of Oklahoma

Different Approaches to Protein Structural Chemistry During the 1930s: Linus Pauling vs. Edwin Cohn: Eric Hoffman, State University of New York at Stony Brook

The Growth of American Science: Some Quantitative Insights: Edward R. Hogan, East Stroudsburg University

36. Race, Science, and Apartheid

Joint session with the American Historical Association

9:30 a.m. - 11:30 a.m., Convention Center, South 222/232

Organizer: Seymour Mauskopf, Duke University

Chair: Philip Sloan, University of Notre Dame

Race and the Language of Science: Nancy Stepan, Columbia University

Social Science and Social Policy in South Africa, 1950-1985: David Goldberg, New York University

Race, Science, and the Legitimation of White Supremacy in South Africa: Paul Rich, University of Warwick

Comment: John Cell, Duke University

continued on next page

**1988 HISTORY OF SCIENCE SOCIETY ANNUAL MEETING
27-30 DECEMBER 1988
A JOINT MEETING WITH THE AMERICAN HISTORICAL ASSOCIATION
WESTIN HOTEL, FOUNTAIN SQUARE, CINCINNATI, OHIO 45202**

PREREGISTRATION FORM

Mail completed form with your check to:

Professor Alan J. Roche
HSS Registrations
History Department
Case Western Reserve University
Cleveland, OH 44106

Name _____

Affiliation _____

Address _____

City _____ State _____ Zip _____

_____ Registration for HSS members @ \$30 using this form
(those registering at the meeting will pay \$35)

_____ Registration for nonmembers @ \$40 using this form
(those registering at the meeting will pay \$50)

_____ Registration for students @ \$12 using this form
(those registering at the meeting will pay \$14)

(Note: HSS and AHA have a reciprocity agreement for registration — the fees are the same, and registration with either society is valid for the other)

_____ HSS Banquet @ \$25. I prefer: _____ Chicken Wellington
_____ Prime Rib
_____ Vegetarian

_____ Total: Please make check payable in U.S. dollars to the
History of Science Society.

**THIS FORM MUST BE RECEIVED BY 5 DECEMBER 1988
TO BE ELIGIBLE FOR ABOVE FEES**

HOTEL REGISTRATION FORM

Fill out and return to:

Westin Hotel
Fountain Square
Cincinnati, OH 45202
Telephone (513) 621-7700

Name(s) _____

Affiliation _____

Address _____

City _____ State _____ Zip _____

Date arriving _____ approx. _____ a.m. _____ p.m. Date departing _____ approx. _____ a.m. _____ p.m.

Please reserve: _____ Single(s) @ \$43 (plus tax)
_____ Double(s) @ \$48 (plus tax)

_____ I wish to share a room with _____

_____ I would like to share a room with another member of this group selected by the local arrangements committee (if you have an ambiguous first name, please indicate sex: _____)

The Westin Hotel is a luxury hotel on Fountain Square, at the center of downtown Cincinnati (Fifth and Vine Streets). Check-in time is anytime after 3 p.m., check-out time is until 1 p.m. The hotel requests a guarantee with reservations, using Mastercard, Visa, or American Express:

Card type _____

Card number _____ Exp. _____

THE BLOCK OF ROOMS FOR HSS REGISTRANTS WILL BE HELD UNTIL 13 DECEMBER 1988, AFTER WHICH DATE ALL ROOMS STILL HELD FOR THE SOCIETY WILL BE RELEASED.

37. Anti-Psychiatry, Ex-Patients, and History**Joint session with the American Historical Association**

9:30 a.m. - 11:30 a.m., Convention Center, South 221/231

Organizer: Ronald F. White, University of Kentucky

Chair: Nancy Tomes, State University of New York at Stony Brook

Anti-Psychiatry: Patients' Perspectives from the Nineteenth and Early Twentieth Centuries: Ellen Dwyer, Indiana University*The Mental Patients' Liberation Movement: 1970 to the Present*: Judi Chamberlin, National Alliance of Mental Patients*Anti-Psychiatry in Historical Perspective: A Socio-Cultural-Scientific Phenomenon*: Norman Dain, Rutgers University

Comment: Nancy Tomes

38. Works in Progress: American Science

10:00 a.m. - 11:30 a.m., Hayes/Harrison

Chair: Rima D. Apple, University of Wisconsin-Madison

Perfecting Nature's Perfect Package: Mary Engle*Pennington's Eggs*: Lisa Robinson, Michigan State University*Joseph Charles Arthur (1850-1942): Contributions to American Plant Physiology and Plant Pathology*: Grant M. Barkley, Kent State University*F. W. Putnam of Harvard University: From Ichthyology to American Archaeology*: Ralph W. Dexter, Kent State University

The AHA book exhibit is located on the third floor of the Convention Center. All meetings are on the second floor.

BOOKS RECEIVED—continued*Histoire du concept d'espèce dans les sciences de la vie*. (Colloque international, mai 1985, organisé par la Fondation Singer-Polignac.) xiii + 324 pp., bibl. Paris: Editions de la Fondation Singer-Polignac, 1987. (Paper.)**J. Allan Hobson**. *The Dreaming Brain*. xvi + 319 pp., illus., bibl., index. New York: Basic, 1988. \$22.95.**Gerald Holton**. *Thematic Origins of Scientific Thought: Kepler to Einstein*. vi + 499 pp., figs., index. Revised edition. Cambridge, Mass./London: Harvard University Press, 1988. \$25 (cloth); \$12.95 (paper).**John Honner**. *The Description of Nature: Niels Bohr and the Philosophy of Quantum Physics*. ix + 235 pp., bibl., index. Oxford/New York/Toronto: Clarendon Press of Oxford University Press, 1987. \$55.**Denis Huisman** (Compiler). *Dictionnaire des philosophes*. 2 volumes. xxii + 2725 pp. Paris: Presses Universitaires de France, 1984. Fr 1,200.**N. Jardine**. *The Birth of History and Philosophy of Science: Kepler's A Defence of Tycho against Ursus with Essays on Its Provenance and Significance*. x + 301 pp., illus., index. Cambridge/New York/New Rochelle: Cambridge University Press, 1984; 1988. \$16.95 (paper).**Robert Alun Jones**. *Emile Durkheim: An Introduction to Four Major Works*. (Masters of Social Theory, 2.) 167 pp., bibl., index. Beverly Hills, Calif./London: Sage, 1986. \$18.95 (cloth); \$8.95 (paper).**Lynn Sumida Joy**. *Gassendi the Atomist: Advocate of History in an Age of Science*. (Ideas in Context.) xiii + 311 pp., index. Cambridge/New York/New Rochelle: Cambridge University Press, 1987.**Immanuel Kant**. *Pensamientos sobre la verdadera estimación de las fuerzas vivas*. Translated with commentary by **Juan Arana Cañedo-Argüelles**. 476 pp., figs., index. Bern/Frankfurt am Main/New York: Peter Lang, 1988.**Robert Kargon**, **Peter Achinstein** (Editors). *Kelvin's Baltimore Lectures and Modern**Theoretical Physics: Historical and Philosophical Perspectives*. xi + 547 pp., figs., index. Cambridge, Mass./London: MIT Press, 1987. \$40.**Alvin Kernan**. *Printing Technology, Letters, and Samuel Johnson*. xvi + 357 pp., illus., bibl., index. Princeton, N.J.: Princeton University Press, 1987. \$29.50.**David A. King**, **George Saliba** (Editors). *From Deferent to Equant: A Volume of Studies in the History of Science in the Ancient and Medieval Near East, in Honor of E. S. Kennedy*. (Annals of the New York Academy of Sciences, 500.) xxix + 569 pp., illus., figs. New York: New York Academy of Sciences, 1987. (Paper.)**Hermann Kleber**. *Glück als Lebensziel: Untersuchungen zur Philosophie des Glücks bei Thomas von Aquin*. (Beiträge zur Geschichte der Philosophie und Theologie des Mittelalters, Neue Folge, 31.) xxvii + 328 pp., index. Munich: Aschendorff, 1988. DM 98 (paper).**David Knight**. *The Age of Science: The Scientific World-view in the Nineteenth Century*. xi + 251 pp., illus., bibl., index. Oxford/New York: Basil Blackwell, 1986. £17.50, \$24.95.**Wilbur Knorr**. *The Ancient Tradition of Geometric Problems*. ix + 411 pp., figs., bibl., index. Boston/Basel/Stuttgart: Birkhäuser, 1986. \$69.**William A. Koelsch**. *Clark University, 1887-1987: A Narrative History*. xv + 270 pp., illus., index. Worcester, Mass.: Clark University Press, 1987. \$25.**Edward A. Kolodziej**. *Making and Marketing Arms: The French Experience and Its Implications for the International System*. xxv + 518 pp., figs., apps., index. Princeton, N.J.: Princeton University Press, 1987. \$55.**Nick Kotz**. *Wild Blue Yonder: Money, Politics, and the B-1 Bomber*. ix + 313 pp., illus., bibl., index. New York: Pantheon, 1988. \$19.95.**John A. Kouwenhoven**. *The Beer Can by the Highway: Essays on What's American about America*. 255 pp., illus., index. Reprint edition. Baltimore/London: Johns Hopkins University Press, 1988. \$9.95 (paper).**Benjamin Henry Latrobe**. *The Correspondence and Miscellaneous Papers of Benjamin Henry Latrobe*. Volume III: 1811-1820. Edited by **John C. Van Horne**, **Jeffrey A. Cohen**, and **Darwin Stapleton**. (The Papers of Benjamin Henry Latrobe, 4.) xlv + 1116 pp., illus., index. New Haven/London: Yale University Press for the Maryland Historical Society, 1988. \$140.**Antoine-Laurent Lavoisier**. *De la richesse territoriale du Royaume de France*. Compiled by **Jean-Claude Perrot**. (C.T.H.S. Format, 3.) 269 pp. Paris: Comité des Travaux Historiques et Scientifiques, 1988. Fr 60 (paper).**Christopher Lawrence**, **Ghislaine Lawrence**. *No Laughing Matter: Historical Aspects of Anesthesia*. With the assistance of **Huw Geddes** and **Lorraine Ward**. (Catalogue of an Exhibition held at the Wellcome Institute for the History of Medicine, 8 June-25 September 1987.) 84 pp., illus., bibl. London: Wellcome Institute for the History of Medicine/Science Museum, 1987. £5 (paper).**Jonathan Lear**. *Aristotle: The Desire to Understand*. xi + 328 pp., bibl., index. Cambridge/New York/New Rochelle: Cambridge University Press, 1988. \$39.50 (cloth); \$12.95 (paper).**T. D. Lee**. *Symmetries, Asymmetries, and the World of Particles*. xii + 66 pp., figs., bibl. Seattle/London: University of Washington Press, 1988. \$9.95.**Loys Leroy**. *De la vicissitude ou variété des choses en l'univers*. (Corpus des Oeuvres de Philosophie en Langue Française.) 444 pp. Paris: Arthème Fayard, 1988. Fr 175.**La Mothe Le Vayer**. *Dialogues faits a l'imitation des anciens*. (Corpus des Oeuvres de Philosophie en Langue Française.) 508 pp. Paris: Librairie Arthème Fayard, 1988. Fr 195.**Rita Levi-Montalcini**. *In Praise of Imperfection: My Life and Work*. Translated by **Luigi Attardi**. (Alfred P. Sloan Foundation Series.) xiii + 220 pp., illus., index. New York: Basic, 1988. \$18.95.The remainder of the Books Received List will appear in the next issue of the *Newsletter*.

PUBLICATIONS, ETC.

Science in Context, a new semiannual journal, is "devoted to the study of the sciences from the point of view of comparative epistemology and historical sociology of scientific knowledge. It will not segregate history, philosophy and sociology of knowledge from each other. . . . This integrative approach will demand comprehensive (and often longer) articles, many of them commissioned. Several alternative approaches to the same problem will often be presented together." Editors are Robert S. Cohen, Yehuda Elkana, Gideon Freudenthal, and Simon Schaffer. For subscription information contact Cambridge University Press, either at 32 East 57th Street, New York, NY 10022 USA (in North America) or at the Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU United Kingdom (elsewhere).

Copies of the **Proceedings of the Conference on the State of Science, Technology, and Society Programs in Western Europe, North America, and Australia**, sponsored by the Society for the Social Studies of Science and Worcester Polytechnic Institute in Worcester, Massachusetts, 18-20 November 1987, are available from John Wilkes, Department of Social Science and Policy Studies, Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA 01609. Copies cost \$10 each, plus postage and handling: U.S., first class \$3.50, book rate \$1.50; Canada, first class \$5, printed matter \$4; elsewhere, printed matter (surface; takes 4-6 weeks) \$4.

Knowledge in Society, a new quarterly publication, is devoted to the development of an interdisciplinary science of knowledge in society. Contributors investigate practical problems of our information-intensive society as well as new theories, methods, and strategies for understanding and improving the critical communication role of scientists and professionals in contemporary society. Editor-in-Chief is William N. Dunn. For subscription information contact Transaction Periodicals, Rutgers University, New Brunswick, NJ 08903; (201) 932-2280.

On TOP (On Those Opposed to Pseudoscience), a newsletter, distributed its first issue for Fall/Winter 1987, and intends to acquaint academics, administrators, policymakers, and other

professionals dealing with issues relating to pseudosciences with each other and to describe the nature of their respective interests. For further information write to the Department of Sociology, Anthropology, and Social Work, Box 19599, 205 University Hall, University of Texas at Arlington, Arlington, TX 76109.

Resources for the History of Computing: A Guide to U.S. and Canada Records is now available for \$9 from the Charles Babbage Institute, 103 Walter Library, 117 Pleasant Street SE, University of Minnesota, Minneapolis, MN 55455.

The Academic's Handbook, edited by A. Leigh DeNeef, Craufurd D. Goodwin, and Ellen Stern McCrate, has recently been published by Duke University Press.

The Relations of Literature and Science: An Annotated Bibliography of Scholarship, 1880-1980, edited by Walter Schatzberg, Ronald A. Waite, and Jonathan K. Johnson, has recently been published by the Modern Language Association. Copies are available from MLA at 10 Astor Place, New York, NY 10003.

Members of the Association Villard de Honnecourt for the Interdisciplinary Study of Medieval Technology, Science and Art receive the **Avista Forum Quarterly**. Membership information is available from the Department of Fine Arts, Haverford College, Haverford, PA 19041.

The College of Physicians of Philadelphia publishes a newsletter entitled **Fugitive Leaves from the Historical Collections**. Requests for complimentary subscriptions and back issues should be sent to Thomas A. Horrocks, Associate Librarian, Historical Collections, College of Physicians of Philadelphia, 19 South 22nd Street, Philadelphia, PA 19103.

Annual subscriptions to **ScienceWriters**, the quarterly publication of the National Association of Science Writers, are available for \$30.00 from Diane McGurgan, P.O. Box 294, Greenlawn, NY 11740; (516) 757-5664.

Complimentary subscriptions to **Inquiry**, the newly established quarterly newsletter of the Science Journalism Center of the University of Missouri, are available from the Center, University of Missouri, P.O. Box 838, Columbia, MO 65205; (314) 882-4714.

The Winter 1988 issue of **MBL Science**, issued by the Marine Biological Laboratory, includes a special section, "Controversies in Science: When Experts Disagree," with articles by Arthur Caplan, Adele Clarke, William Provine, and Charles Weiner. Copies of this issue are available without charge from **MBL Science**, Marine Biological Laboratory, Woods Hole, MA 02543; (617) 548-3705.

Copies of **Proposal Review at NSF: Perceptions of Principal Investigators** (NSF 88-4), a report on a survey of applicants for research support from the National Science Foundation, may be obtained by writing to the Forms and Publications Office, NSF, 1800 G Street, NW, Room 232, Washington, DC, 20550; (202) 357-7861.



From Eucharius Roeslin, *Der schwangernen Frauen und Hebammen Rosegarten* (Augsburg, 1528). Courtesy of the John Crerar Library, University of Chicago.

The Women's Studies Librarian of the University of Wisconsin System has published **The History of Women and Science, Health, Technology: A Bibliographic Guide to the Professions and the Disciplines**. Single copies are available at no charge, while supplies last, from Susan E. Searing, Women's Studies Librarian, 112A Memorial Library, 728 State Street, Madison, WI 53706; (608) 263-5754.

Annual subscriptions to **Quipu: Revista Latinoamericana de Historia de las Ciencias y la Tecnología** are available for \$15 (U.S.) from Apartado Postal 21-873, 04000 México, D.F., México.

FELLOWSHIPS & GRANTS

The **American Council of Learned Societies** sponsors several programs of postdoctoral fellowships and grants in the humanities. All require the Ph.D. or its equivalent and U.S. citizenship or permanent legal residence. Younger scholars and independent scholars who do not hold academic appointments are strongly encouraged to apply. Requests for application forms must contain the following information: citizenship or permanent residence, highest academic degree held and date received, academic or other position, field of specialization, proposed subject of research or study, period of time for which support is requested, and the specific program under which application is contemplated. For the programs with 30 September deadlines, requests for application forms must be received no later than **27 September 1988**.

ACLS programs with a deadline of **30 September 1988** are *ACLS Fellowships* for research (tenure: minimum of six continuous months to a maximum of one year between 1 July 1989 and 31 December

1990; maximum award: \$15,000) and *ACLS Research Fellowships for Recent Recipients of the Ph.D.*, for research for applicants whose Ph.D. degree will have been conferred between 1 January 1986 and 31 December 1988 (tenure: minimum of six continuous months to a maximum of one year between 1 July 1989 and 31 December 1990; maximum award: \$10,000). With a deadline of **15 December 1988** are *ACLS Grants-in-Aid*, to support expenses of research in progress (tenure: grants to be expended between 1 May 1989 and 1 May 1990; maximum award: \$3,000). *ACLS Grants for Travel to International Meetings*, for participation in international meetings held outside North America, have deadlines of **1 October 1988**, for meetings January–June 1989 and **1 March 1989** for meetings July–December 1989. Programs with **15 November 1988** deadlines are *Fellowships for Chinese Studies*, for postdoctoral or graduate research and training in China area studies, and *Fellowships for East European Studies*, for postdoctoral or graduate re-

search and training in East European area studies. Contact Office of Fellowships and Grants, American Council of Learned Societies, 228 East 45th Street, New York, NY 10017-3398; (212) 697-1505.

The **Columbia Society of Fellows in the Humanities**, with grants from the Andrew W. Mellon Foundation and the William R. Kenan Trust, will appoint a number of postdoctoral fellows in the humanities for the academic year 1989–90. The appointment carries with it the expectation of renewal for a second year. Fellows newly appointed for 1989–90 must have received the Ph.D. between 1 January 1986 and 1 July 1989, and will devote half time to independent research and half time to teaching in the undergraduate program in general education. Application forms can be obtained by writing to the Director, Society of Fellows in the Humanities, Heyman Center for the Humanities, Box 100 Central Mail Room, Columbia University, New York, NY 10027. Deadline for receipt of completed application forms is **15 October 1988**.

POSITIONS

The Department of History at the **University of California, San Diego**, invites applications for a position in the history of science, at the assistant or beginning associate professor level, to help develop new programs in the history of science and in integrated science studies. Applications are invited from those with experience in the history of an aspect of postmedieval Western science; demonstrable interest in integrating historical teaching and research with sociological and philosophical perspectives is essential. Applications, accompanied by a curriculum vitae, list of publications, and the names of three to five references, should be sent by **15 November 1988** to Martin Rudwick, Department of History C-004, UCSD, La Jolla, CA 92039.

The **Edison National Historic Site**, West Orange, New Jersey, is looking for a Supervisory Museum Curator in Science and Technology. The incumbent is responsible for the preservation, maintenance, and use of collections, which are particularly

strong in technological and industrial artifacts; directly and indirectly supervises a permanent staff of nine (archivist, curator, historians, museum and archives technicians and aides) as well as additional temporary project staff; is responsible for developing a collections preservation program; advises scholars and researchers in the field of science and technology; provides and implements a collection management and accountability policy; initiates or participates in special public programs; and may prepare articles for general and scholarly publications. GS-1015-12, \$33,218 per annum. Standard federal application form SF-171 and transcripts listing all courses completed for both undergraduate and graduate study must be forwarded to the U.S. Office of Personnel Management, Syracuse Area Office, U.S. Court House and Federal Building, 100 South Clinton Street, Syracuse, NY 13260. All applications must contain application file code number PS-1635 in block number 1 of the SF-171.

The Department of the History of Science, **Harvard University**, seeks to appoint

as Head Tutor either a three-year Assistant Professor (renewable for an additional three years) or a five-year Associate Professor (with the expectation of one half-year leave at full salary). Responsibilities include teaching one undergraduate- or graduate-level course or seminar each term and administering the department's undergraduate tutorial program. The department will consider any field of interest within the history of science, medicine, or technology. Candidates should have completed the Ph.D. degree by 1 September 1989. Effective date of appointment: 1 July 1989. Application, dossier (including three letters of recommendation), and appropriate written or published material should be sent to Barbara G. Rosenkrantz, Department of the History of Science, Harvard University, Science Center 235, Cambridge, MA 02138, by **1 October 1988**.

The **National Invention Center**, to be built in Akron, Ohio, is seeking a creative and innovative leader as Executive Director to develop and build the nation's first science center with specific emphasis on creativity and invention. This new center

The **Committee on Scholarly Communication with the People's Republic of China** announces three programs of scholarly exchanges for 1989-90. The **Visiting Scholar Exchange Program** (deadline **15 November 1988**) supports one- to three-month visits for American and Chinese scholars in all disciplines between September 1989 and August 1990. The **Graduate Program** supports individuals enrolled in a graduate program in the social sciences or humanities to do coursework or dissertation research at a Chinese university. The **Research Program** supports individuals in the social sciences and humanities who hold a Ph.D. or equivalent at the time of application to do in-depth research on China, the Chinese portion of a comparative study, or an exploratory survey of an aspect of contemporary China. Research grantees normally spend from two months to one year in the PRC, beginning no earlier than July 1989 and ending no later than December 1990. The deadline for application to the Graduate and Research Programs is **15 October 1988**. For application information on all programs write the Committee on Scholarly Communication with the People's

Republic of China, National Academy of Sciences, 2101 Constitution Avenue, Washington, DC 20418; (202) 334-2718.

The 1989-90 **Fulbright Scholar-in-Residence Program** offers opportunities for American colleges and universities to host a visiting scholar from abroad for all or part of the 1989-90 academic year. The deadline for receipt of proposals is **1 November 1988**. Detailed program guidelines and proposal forms may be requested from the Council for International Exchange of Scholars, Eleven Dupont Circle, NW, Suite 300, Washington, DC 20036-1257; (202) 939-5401.

The **Huntington Library**—whose collections in the history of science are especially rich in early modern science, chemistry, and astronomy—welcomes proposals from doctoral candidates and younger scholars for its Keck Awards. These grants furnish researchers at the library with stipends of at least \$1,500 per month for up to three months. For additional information contact Martin Ridge, The Huntington Library, San Marino, CA 91108.

The School of Historical Studies, **Institute for Advanced Study**, announces fellowships for research in the history, thought, and culture of the Western world. The Ph.D. (or equivalent) and substantial publications are required. Qualified candidates of any nationality may apply for one or two terms. NEH fellowships are available for American nationals and some travel funds are supplied. Applications for 1989-90 are due before **15 October 1988**. For further details write the Administrative Office, School of Historical Studies, Institute for Advanced Study, Olden Lane, Princeton, NJ 08540; (609) 734-8200.

Andrew W. Mellon Faculty Fellowships in the Humanities at Harvard University are awarded to nontenured, experienced junior scholars who have completed, at the time of appointment, at least two years of postdoctoral teaching as college or university faculty in the humanities, usually as assistant professors. Special consideration will be given to candidates who have not

continued on next page

will be the home of the National Inventors' Hall of Fame. Send resumes to Vincent A. DiGirolamo, Chairman and CEO, National City Bank, One Cascade Plaza, Akron, OH 44308.

Vanderbilt University will appoint a tenure-track Assistant Professor in history of science, beginning fall 1989. Area and period open; European emphasis preferred. Ph.D., teaching experience, publications preferred. Send current dossier, including three recent letters of recommendation, to Search Committee, History of Science, Vanderbilt University, Box 1802, Nashville, TN 37235. The deadline is **15 October 1988**.

The **Department of History, University of Washington**, seeks a historian of technology at the level of assistant professor. In exceptional circumstances a more senior appointment may be considered. The job is tenure track and begins September 1989. The field is open, but American technology is preferred. Candidates should be able to teach in the general history of science survey. Applications received by **1 November 1988** will receive priority. Send

curriculum vitae and three letters of recommendation to Thomas L. Hankins, Department of History DP-20, University of Washington, Seattle, WA 98195.

FOR THE RECORD

Auburn University sought an Assistant or Associate Professor in history of science and technology, primarily to teach entering science and engineering majors with exceptionally high ACT and SAT scores in a Technology and Civilization sequence. Candidates were to send a letter of application, a curriculum vitae, and three letters of recommendation by **30 April 1988** to W. David Lewis, Department of History, Auburn University, Auburn University, AL 36849-5207.

Applications were invited, with a closing date of **16 May 1988**, for appointment to the position of Fellow or Senior Fellow, a tenurable full-time research position in the History of Ideas Unit headed by Professor Eugene Kamenka, Research School of Social Sciences, **Australian National University**. Salary: Fellow; A\$32,999-A\$44,032; Senior Fellow; A\$44,090-

A\$51,304. Requests for further information and applications should be submitted in duplicate to the Registrar, The Australian National University, GPO Box 4, Canberra ACT 2601, quoting Reference Number SS 10.3.1 and including curriculum vitae, list of publications, and names of at least three referees. The University reserves the right not to make an appointment or to appoint by invitation at any time.

The Department of History at **Texas A & M University** continues its search for a historian of technology, to begin in September 1988, preferably an assistant professor. Applicants at more advanced levels and social historians whose research concentrates on the impact of technology on society will also be considered. Primary teaching responsibilities are history of American and European technology. Send letter of application to Arnold P. Krammer, Department of History, Texas A & M University, College Station, Texas 77843.

FELLOWSHIPS—continued

recently had access to the resources of a major research university. Ph.D. required and received prior to 30 June 1987. One year appointment, July 1989–June 1990, with limited teaching duties, departmental affiliation, opportunity to develop scholarly research. Applications are due by **1 November 1988**, and awards will be announced by **1 February 1988**. For particulars and application procedures write Richard M. Hunt, Program Director, Harvard University Mellon Faculty Fellowships, Lamont Library 202, Cambridge, MA 02138; (617) 495-2519.

Andrew W. Mellon Postdoctoral Fellowships in the Humanities at the University of Pennsylvania are awarded to younger scholars who, by 30 September 1989, will have held the Ph.D. for not fewer than three and not more than eight years. Research proposals are invited in all areas of humanistic studies except educational curriculum-building and performing arts. Preference is given to proposals that are interdisciplinary and to candidates who have not previously utilized the resources of this university and whose work would allow them to take advantage of the research strengths of the institution and to make a contribution to its intellectual life. The award carries an annual stipend of \$27,000. Completed applications must be received by **1 December 1988**. For further information and applications write to Chairman, Humanities Coordinating Committee, 16 College Hall, University of Pennsylvania, Philadelphia, PA 19104-6378. AA/EOE.

Andrew W. Mellon Postdoctoral Fellowships in the Humanities at Stanford University are awarded to highly promising scholar-teachers. These nonfaculty one-year positions carry departmental affiliation and limited teaching duties and the opportunity for scholarly work and intellectual growth. The Ph.D. must have been received after June 1982 and before September 1989, and the fellowship is renewable for a second year. Application forms for 1989–90 are available from the Dean's Office, Humanities and Sciences, Building One, Stanford University, Stanford, California 94305; (415) 723-2275. All materials, including three letters of reference, are due no later than **30 November 1988**, and applicants will be notified of the outcome in late February 1989.

The **National Endowment for the Humanities** announces the availability of grants through its category of Humanities, Science and Technology, for the support of scholarly research that employs the theories and methods of humanities disciplines to study science, technology, and medicine. Applicants may request support for full- or part-time salaries, travel, and other costs of conducting research for periods of from one to three years. Application materials are available from Daniel Jones, Program Officer for Humanities, Science and Technology, Room 318, National Endowment for the Humanities, Washington, DC 20506; (202) 786-0210. The next deadline for receipt of applications is **1 October 1988**.

As announced in the last issue of the *Newsletter*, the **National Science Foundation** has created a new program, **Studies in Science, Technology, and Society (SSTS)**, to support philosophical, historical, ethical, normative, social-science, or collaborative studies of science, engineering, or technology. The first guidelines from the new program, for **Postdoctoral and Professional Development Awards**, should be available in late July and will be mailed to all U.S. HSS members in August; the deadline for applications is **1 November 1988**. Applicants who have received their Ph.D.s within the last five years are eligible for the postdoctoral fellowships; professional development awards are available to established scholars in SSTS or experienced scientists and engineers who wish to develop or improve science or technology studies skills. Deadlines for **History and Philosophy of Science (HPS)** research proposals remain **1 August** and **1 February**, and new guidelines for such proposals will be issued in January 1989. The next deadline for submitting **Ethics and Values Studies (EVS)** preliminary proposals is **1 November 1988**. EVS supports research and related activities examining ethical or value issues of current significance to U.S. science and engineering. Results are to be accessible to persons interested in professional ethics, the impact of technology, and the uses of science in decision making. Preliminary proposals should be 3- to 5-page letters identifying an area of inquiry, relevant prior research, methods, expected contributions, investigators' credentials, and project duration and budget. For further information about EVS, HPS, and all other NSF SSTS programs, contact the National Science Founda-

tion, Washington, DC 20550; (202) 357-9894.

The **National Humanities Center** offers thirty-five to forty fellowships for advanced study in history, philosophy, languages and literature, classics, religion, history of the arts, and other fields in the liberal arts. Scholars from any nation and social scientists, natural scientists, or professionals whose work has a humanistic dimension are welcome to apply. Applicants must hold the doctorate or have equivalent professional accomplishments. These fellowships are supported by grants from the Andrew W. Mellon Foundation, the National Endowment for the Humanities, the Research Triangle Foundation, Delta Delta Delta, and the Rockefeller Foundation. Application deadline for the 1989–90 academic year is **15 October 1988**. For application material write to Kent Mullikin, Assistant Director, National Humanities Center, 7 Alexander Drive, P.O. Box 12256, Research Triangle Park, NC 27709-2256; (919) 549-0661.

The **National Library of Medicine** plans to select one recognized scholar to engage in historical research and staff consultation during the 1989–90 academic year. Applications are now invited from individuals interested in spending from six to twelve months at the library between 1 September 1989 and 31 August 1990. Detailed announcements and application forms may be obtained from the Chief, History of Medicine Division, National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894; (301) 496-5405. The closing date is **15 December 1988**.

Northwestern University offers both graduate and postdoctoral fellowships in the history of science. Prospective graduate students should apply directly to the Graduate School, Northwestern University, Evanston, IL 60208, indicating that they are applying to the Department of Philosophy. Application deadline is **15 January 1988**. Postdoctoral candidates should contact David Hull, Department of Philosophy, Northwestern University, Evanston, IL 60208; (312) 491-3656. The deadline for the completed applications for the 1989–90 academic year is **1 December 1988**.

The American College of Obstetricians and Gynecologists **Ortho Fellowship in the History of American Obstetrics and Gynecology** for research into some area of

American obstetric and gynecological history can be used to defray expenses while spending a month in the ACOG historical collection and other medical and historical collections in the Washington, D.C., area. Applications for the 1989 award will be accepted until **1 September 1988**. For more information contact Gay Takakoshi, Librarian, Historical Collection, American College of Obstetricians and Gynecologists, 600 Maryland Avenue, SW, Washington, DC 20024; (202) 638-5577.

Rockefeller Foundation Postdoctoral Fellowships in the Humanities at the University of Oklahoma are awarded for advanced research and writing that integrates historical knowledge about the scientific enterprise and its results into general studies of modern Western culture and civilization. Research resources include the University's History of Science Collections, a comprehensive research facility containing approximately 75,000 volumes, including 50 incunabula and 850 sixteenth-century titles. Junior- and senior-level postdoctoral fellowships are open to candidates with doctorates in history, the history of science, or related fields. Further information and application forms are available from Kenneth L. Taylor, History of Science Department, 622 Physical Sciences Building, University of Oklahoma, Norman, OK 73019; (405) 325-2213. Applications are due by **16 January 1989**.

The **Social Science Research Council** sponsors several fellowship and grant programs for both predoctoral and postdoctoral training and research in both the social sciences and the humanities. Among these programs are *Doctoral Research Fellowships for Area Studies and Grants for Area-Studies Research*: support for doctoral and advanced research abroad; deadline **3 October 1988**. *Berlin Program for Advanced German and European Studies*: support for doctoral and advanced research in Germany; deadline to be announced. *Graduate Training in Soviet Studies*: support for third-, fourth-, and fifth-year graduate study; deadline **1 December 1988**. *Dissertation Fellowships in Soviet and Japanese Studies*: support for the final year writing the dissertation; deadline **1 December 1988**. Contact Office of Fellowships and Grants, Social Science Research Council, 605 Third Avenue, New York, NY 10158; (212) 661-0280.

Fellowships Awarded

Among the nineteen scholars recently awarded fellowships by the **American Antiquarian Society** is Chandos Brown, an independent scholar of Cambridge, Massachusetts, whose project is Benjamin Silliman and the rise of American science.

The **John Simon Guggenheim Memorial Foundation** has announced the award of fellowships to 262 scholars, scientists, and artists (from among 3,264 applicants) in the foundation's 64th annual competition. The list of winners, with their institutional affiliations and proposed studies, includes Ruth Schwartz Cowan (professor of history and director of women's studies, State Univ. New York at Stony Brook): a history of amniocentesis. John E. Lesch (associate professor of history, Univ. California at Berkeley): the history of the sulfa drugs. Harry N. Scheiber (professor of law, Univ. California at Berkeley): technology and the development of American law.

The **National Endowment for the Humanities** recently announced the names of 221 scholars who have received summer stipends for 1988. Among them are Thomas H. Broman (Michigan State): professional education in eighteenth-century Germany—the case of medicine. James E. Force (Univ. Kentucky): unity in Newton's theological, scientific, and political thought. Lynn K. Nyhart (Michigan State): animal morphology and the German university, 1850–1900. Ronald C. Sawyer (SUNY-Binghamton): patients and healers in early modern England. Steven M. Stowe (Indiana): medicine, family, and belief in the American South, 1800–80. Sheila F. Weiss (Clarkson): primary and secondary school biology education in the Third Reich. Alan Wolfe (Queens College of CUNY): the moral tradition in sociology. Leila C. Zenderland (California State at Fullerton): Henry Herbert Goddard and the origins of American intelligence testing.

Among the 229 university and college teachers and independent scholars who have recently received fellowships from the NEH for the 1988–89 academic year are Geoffrey C. Cocks (Albion College): productivity and social control in Nazi Germany—the role of medicine and psychology. Norman J. Gevitz (Univ. Illinois at Chicago): caring for one's self—a history of domestic medicine in the United

States, 1860–1985. Stephen J. Pyne (Arizona State): a cultural history of fire in Australia. Wade L. Robison (Kalamazoo College): David Hume and human nature. John S. Rohsenow (Univ. Illinois at Chicago): the effects of social and technological change on the Chinese writing system. Michael E. Zimmerman (Tulane): Heidegger's concept of technology—a critical study.

Among the thirty-five fellows named to study at the **National Humanities Center**, Research Triangle Park, North Carolina, during the 1988–89 academic year, is Nicolaas A. Rupke, independent scholar in the history of science, to work on a scientific biography of Richard Owen, 1804–92.

The **National Science Foundation** has awarded 685 fellowships for graduate study. The list of those who will study history of science, with their baccalaureate institutions and their graduate institutions, includes John Cheng (Harvard), Univ. California at Berkeley; Julie Denenberg (Univ. California at Santa Cruz), Univ. Pennsylvania; Michael A. Fortun (Hampshire), Harvard; Michael C. Halliburton (Memphis State), Univ. Wisconsin–Madison; Elizabeth E. Hunt (Indiana), Univ. Pennsylvania; Vernon A. Rosario II (Brown), Harvard; Sherrilyn M. Roush (Pennsylvania State), Princeton; David I. Spanagel (Oberlin), Univ. California at Berkeley; Jennifer G. Tucker (Stanford), Harvard; Anders Weinstein (Harvard), Univ. Pittsburgh.

Two Rockefeller Foundation Fellowships in the Humanities at the **University of Oklahoma** have been awarded for 1988–89 for advanced research and writing on the history of science in Western civilization. Gregg Mitman has been appointed a postdoctoral fellow for his research on groups, hierarchies, and social control—animal behavior and research in America, 1930–1950. Henry E. Lowood and Robin Rider have been appointed jointly for their study of printing and the book of nature.

The **Woodrow Wilson National Fellowship Foundation** has named 127 individuals, who will begin graduate study in the fall, as its sixth group of Mellon Fellows in the Humanities. Among those who plan to study history of science are Michael C. Halliburton (Memphis State) and Jessica Riskin (Harvard).

MEETINGS & LECTURES

The Library of the **American Philosophical Society**, in cooperation with the Commission on Documentation of the International Union of the History and Philosophy of Science, will sponsor a historiographic conference in Philadelphia on 8–10 December 1988. Entitled "Documents and Interpretations in the History of Science," the conference will examine the relationship between documentation and styles of research and interpretation in the history of science, technology, and medicine. Confirmed speakers include Elisabeth Crawford, Herman H. Goldstine, Judith Goodstein, Ivor Grattan-Guinness, Frederic L. Holmes, David Hounshell, Reese Jenkins, Kenneth Ludmerer, Nathan Reingold, Robert Seidel, and Charles Weiner. The organizing committee consists of Edward C. Carter II, Nathan Reingold, David Rhees, and Spencer Weart. All interested persons are invited to attend, though early registration is recommended because space is limited. For further information contact David Rhees, American Philosophical Society Library, 105 South Street, Philadelphia, PA 19106; (215) 627-0706.

The **Colloque Géométrie, Epistémologie et Histoire** is planned on the topic "1830–1930: Un siècle de géométrie, de C. F. Gauss et B. Riemann à H. Poincaré et E. Cartan." The colloquium will be held 19–23 September 1989, probably at the Institut Henri Poincaré, 11 rue Pierre et Marie Curie, 75230, Paris. For further information contact Luciano Boi, Centre d'Analyse et de Mathématiques Sociales, 54 boulevard Raspail, 75270 Paris cedex 06; telephone 33-1-45.44.03.49 or 45.46.35.91.

L'Exposition universelle de 1889: Art et industrie, a colloquium commemorating the Exposition's centenary, will be held in Paris on two days between 15 March and 15 April 1989 at the Musée d'Orsay. For further information about the colloquium, which will be sponsored by the museum in association with the Ecole Normale Supérieure, the Université de Paris VIII, the Université de Paris X, and the Ecole des Hautes Etudes en Sciences Sociales and with the cooperation of the Centre National de Recherche des Sciences, contact Roland Schaer, Service culturel du musée d'Orsay, 62 rue de Lille, 75007 Paris, France; telephone 45 49 48 14.

The 28th **International Geological Congress**, to be held in Washington, D.C., 9–19 July 1989, will include four symposia, a poster session, and a premeeting field excursion on the history of geology. These include sessions on "The Idea of Time: Changing Concepts of the Antiquity of Man and the Earth"; "The Origin, Distribution, and Adequacy of Mineral and Energy Resources: Historical Evaluation of Geologic, Mining, and Environmental Perspectives"; "The Transatlantic Exchange of Geological Ideas in the Nineteenth Century"; and "Meteorite Impact: Consequences for the History of Geologic Mapping." The excursion, "Boston to Buffalo, in the Footsteps of Amos Eaton and Edward Hitchcock," will begin in Boston on 28 June and conclude in Washington, D.C., on 8 July. These activities are cosponsored by the U.S. National Committee on the History of Geology (USHIGEO) and the International Commission on the History of Geological Sciences (INHIGEO). For a description of the events, and instructions for submitting abstracts and paper and presentation proposals, send for the meeting's Second

Circular—available from P.O. Box 727, Tulsa, OK 74101-0727—by 1 October 1988.

This year marks the centenary of the **Marine Biological Laboratory**, Woods Hole, Massachusetts, which will sponsor an **MBL Centennial Celebratory Week**, 12–19 August 1988. For further information contact Judith Anderson, Marine Biological Laboratory, Woods Hole, MA 02543; (617) 548-3705. In addition, the following scholars will speak this summer at the 1988 **MBL History of Science Seminar Series**, entitled "Roadblocks and Breakthroughs in Scientific Discovery" (sessions are held on Thursdays at 4 p.m. in the Whitman Auditorium): 14 July, Pat Kitcher (Univ. California, San Diego), "Freud's Dream: A Complete Science of the Mind"; 21 July, Stephen Jay Gould (Harvard), "Reinterpreting the Burgess Shale: From Preconceptions of Progress to New Views on Historical Contingency"; 28 July, Dorothy Nelkin (Cornell and NYU), "Placing Blame for Dread Disease: Social Biases and Social Policies"; 4 August, Alan M. Brandt (Harvard, History of Science and School of Public Health), "AIDS: From Social History to Social Policy"; 11 August, Daniel Boorstin

SHOT Annual Meeting

The following sessions will make up the 1988 Annual Meeting of the **Society for the History of Technology**, to be held at the Hagley Museum and Library, Wilmington, Delaware, 20–23 October 1988. For further information contact Larry Owens, Department of History, University of Massachusetts, Amherst, MA 01003 (Program Chair), or Elizabeth Gray Kogen, Center for the History of Business, Technology, and Society, Hagley Museum and Library, Wilmington, DE 19807 (Local Arrangements Chair).

National Integration of Technical and Social Systems: Case Studies from the Progressive Era
Technology and Order
The Art of the Builder: Craftsman, Engineer, and Architect
Works in Progress: Engineering and Business in the Early Twentieth Century
Communication Technology and Community

New Perspectives in the History of Technology
Early Nineteenth-Century U.S. Industry Works in Progress: Topics in High Technology
Perspectives on the Synthetic Fibers Revolution
New Work in Medieval and Renaissance Technology
Taylorism after Taylor: Scientific Management in the Twentieth Century
Culture and Technology
Technological Alternatives in the Age of the Superpowers
Works in Progress: Alternative Views
Early Modern Europe: Technology, Economy, and Society
Texts and Technics: Technological Literacy in Historical Perspective
NASA and Its Response to Adversity
Works in Progress: Technology Transfer Science and Engineering in World War II: A Global Comparison
Technology and Public Policy
Technologies and Strategies: Appropriate and Inappropriate
Technology and the Workplace

(former director, Library of Congress),
"The Nature of Scientific Discovery"

The 1989 **Summer Conference on History, Philosophy, and Social Studies of Biology**, the fourth in a biennial series, will take place on the campus of the University of Western Ontario, London, Ontario, Canada, 21-25 June 1989. About two hundred biologists, historians of science, philosophers of science, and social scientists will attend. These meetings are highly international and have been designed very flexibly so as to foster informal cooperative sessions crossing the usual disciplinary

barriers. It is anticipated that a new International Society in History, Philosophy, and Social Studies of Biology (HPSSB) will be formed at this meeting. Please direct inquiries about the program or suggestions regarding session topics to the chair of the program committee, James Griese-mer, Department of Philosophy, University of California, Davis, CA 95616; (916) 752-1068 or 752-0608; BITNET, JRGRIESE @ UCDAVIS. An HPSSB Clearinghouse will be established at the Center for the Study of Science in Society, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061; (703) 961-7687.

REQUEST FOR INFORMATION

The eighth annual bibliography of works on the history of Australian science is expected to be published in the Australian Academy of Science's *Historical Records of Australian Science* in December 1988. The compiler is seeking relevant material published during 1987 for the next bibliography. Please send details or copies of books, journal articles, theses, reports, and reviews on the subject to the compiler, L. E. Carlson, Deakin University Library, Deakin University, Geelong, Victoria 3217, Australia.

CALLS FOR PAPERS

The 1989 Annual Meeting of the **American Association for the History of Medicine** will be held 27-30 April in Birmingham, Alabama. Those interested in presenting papers at this meeting (including contributions to lunch-time round-table discussions and poster sessions) should submit seven copies of an abstract (typed, single-spaced, on a single page, 300-350 words in length) and biographical information (name, academic degree, preferred mailing address, work and home telephone numbers, present institutional affiliation and title) by **15 October 1988**, to Judith Walzer Leavitt, Department of the History of Medicine, 1415 Medical Science Center, University of Wisconsin, 1300 University Avenue, Madison, WI 53706; (608) 263-4560. Any subject in the history of medicine is suitable for presentation, and the paper must represent original work not already published or in press. Presentations will be limited to twenty minutes. The *Bulletin of the History of Medicine*, official publication of the AAHM, reserves the right of first refusal of all papers presented at the Annual Meeting.

The fifth **Biennial International Congress of Gender (formerly Girls) and Science and Technology** will be held at Technion, Haifa, Israel, 17-22 September 1989. One of GASAT 5's official themes is women in the history and philosophy of science, engineering, and technology. Acceptable formats include papers, posters, round-table discussions, and workshops. A fifty-word abstract is due by **1 September 1988**. The first circular can be obtained from the

Secretariat, GASAT 5, c/o ATZERTZ Ltd., P.O. Box 3888, Jerusalem 91037, Israel.

The general theme of the thirty-fifth annual meeting of the **Business History Conference**—to be held at the Harvard Business School in Boston, 31 March-1 April 1989—will be "Manufacturing and Marketing": either one, the two together, and especially relationships between the two in the development of "new" products. Proposals for sessions and papers, on this theme or on any topic related to business history, should be submitted by **30 October 1988**. For further information contact Thomas K. McCraw, Baker Library 217, Soldiers Field, Boston, MA 02163.

A conference entitled **Pierre Duhem: Historian and Philosopher of Science** will be held 16-18 March 1989 at the Center for the Study of Science in Society of Virginia Polytechnic Institute and State University. Participants are expected to include M. Crowe (Notre Dame), D. Garber (Chicago), A. Lugg (Ottawa), N. Martin (London), E. McMullin (Notre Dame), J. Ragep (Harvard), P. Quinn (Notre Dame), and W. Wallace (Catholic Univ.). A portion of the program will be selected from contributed papers. We particularly encourage submissions from younger scholars. For further information please contact Roger Ariew and Peter Barker, Center for the Study of Science in Society, Price House, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061; (703) 961-7687.

The 86th Annual **Conference of the Middle States Council for the Social Studies** will be held 6-8 April 1989 in Annapolis, Maryland, and will focus on the theme

"Towards the 21st Century: Today's Visions—Tomorrow's Realities." Proposals for presentations concerning any aspect or level of social studies education should be received by **1 October 1988**. Proposal forms are available from Tina Fortson-Rivers, 7017 Independence Street, Capitol Heights, MD 20743-2624.

ISCSC, the International Society for the Comparative Study of Civilizations, will hold its 1989 meeting 1-4 June at the University of California, Berkeley. Special themes are "East-West Relations" and "Civilizations of the Pacific Rim." The "comparative civilizational perspective" that the Society advocates is designed to shed new light either on the processes, structures, and texts of single civilizations or on the problem of interpreting and comparing civilizations with methods from both the humanities and the social sciences. Send abstracts (due **15 November 1988**) and inquiries to Professor Corinne Gilb, Program Chair, ISCSC, 1988, 111 El Camino Real, Berkeley, CA 94705.

The 32nd Annual **Missouri Valley History Conference** will be held 9-11 March 1989 in Omaha, Nebraska, and is open to all fields of history as well as to interdisciplinary and methodological studies. Proposals for papers and panels should be submitted by **15 November 1988** to Jerold L. Simmons, Program Coordinator, 1989 MVHC, Department of History, University of Nebraska at Omaha, Omaha, NE 68182. Proposals should include abstracts and brief vitae of all participants. Persons interested in serving as *moderators* or *commentators* are also invited to write to the Program Coordinator and indicate areas of expertise.

Books Received by Isis March–May 1988

Ordering information: Books and publications listed in the *HSS Newsletter* are available from the publisher. The History of Science Society cannot fill orders for non-HSS publishers.

Note: Most books on the Books Received List that will be reviewed in *Isis* have already been assigned to reviewers. If you are interested in reviewing a forthcoming book for *Isis*, please write to the Book Review Editor, *Isis*, 215 South 34th Street, Philadelphia, PA 19104-6310.

Howard S. Abramson. *National Geographic: Behind America's Lens on the World.* 279 pp., illus., bibl., index. New York: Crown, 1987. \$17.95.

Peter C. Aichelburg. *Zeit im Wandel der Zeit.* [Facetten der Physik, 23.] vi + 246 pp., figs. Brunswick/Wiesbaden: Vieweg, 1988. [Paper.]

Peter Alter. *The Reluctant Patron: Science and the State in Britain, 1850–1920.* Translated by Angela Davies. 292 pp., bibl., index. Oxford/Hamburg/New York: Berg, 1987. [Distributed by St. Martin's Press, New York.] \$45.

American Antiquarian Society. *The Collections and Programs of the American Antiquarian Society: A 175th-Anniversary Guide.* 183 pp., illus., index. Worcester, Mass.: American Antiquarian Society, 1987.

Constance G. Anthony. *Mechanization and Maize: Agriculture and the Politics of Technology Transfer in East Africa.* [The Political Economy of International Change.] xiv + 178 pp., figs., index. New York: Columbia University Press, 1988. \$25.

Archéologie industrielle et progrès technique en région lyonnaise. [Section d'Histoire des Sciences et des Techniques, 2.] [Proceedings of the 112th Congrès National des Sociétés Savantes held April 1987 in Lyon.] 106 pp., illus., figs. Paris: Editions du Comité des Travaux Historiques et Scientifiques, 1988. Fr 100 [paper].

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