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## NSF SUPPORT FOR HST IN HIGH SCHOOL COURSES

By KATHRYN M. OLESKO  
Chair, HSS Committee on Education

AN ALTERNATIVE APPROACH TO SCIENCE LITERACY: HISTORY EDUCATION was the title of a conference sponsored by HSS with funding from NSF and held on 27-28 April 1987 at the Intercultural Center of Georgetown University. Representatives of interested agencies and societies, including HSS, met with high school teachers to discuss ways of enhancing the role of the history of science and technology in precollege history courses (especially American and European surveys). A formal recommendation was submitted to the Director of the NSF, Erich Bloch, asking NSF to support curricular reform projects that seek to incorporate topics in the history of science and technology into precollege science and history courses.

Those present at the conference, including representatives of the History of Science Society, the Society for the History of Technology, the American Historical Association, the Society for History Education, the Council of Chief State School Officers, the National Commission on Social Studies, the Educational Testing Service, the National Science Foundation, and the National Endowment for the Humanities, agreed that "scientific literacy" is not just the ability to manipulate and apply the skills, techniques, and tools of science; it refers also to the ability to understand, reflect on, and evaluate the role of science and technology in the modern world, as is appropriate for a responsible citizenry. It was

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*The Georgetown University Intercultural Center, where the conference on scientific literacy recently met.*

### HSS EXECUTIVE COMMITTEE

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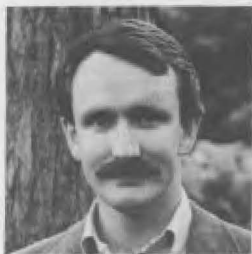
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The History of Science Society was founded in 1924 to secure the future of *Isis*, the international review that George Sarton (1884-1956) had founded in Belgium in 1912. The Society seeks to foster interest in the history of science and its social and cultural relations, to provide a forum for discussion, and to promote scholarly research in the history of science. The Society pursues these objectives by the publication of its journals *Isis* and *Osiris*, by the support and subvention of other forms of scholarly publication, by the organization of annual meetings and other programs, by the award of medals and prizes for outstanding contributions to the history of science, by the encouragement and sponsorship of local and regional sections of the Society, and by cooperation with other learned and scientific societies.

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John Beatty



Peter Dear



Peter Galison



Sharon Kingsland



Kenneth Manning

## THE 1987 HSS ELECTION CANDIDATES' BIOGRAPHIES

### FOR COUNCIL

#### John Beatty

Associate Professor, Department of Ecology, Evolution, and Behavior; Program in the History of Science and Technology; Center for the Philosophy of Science; University of Minnesota. Ph.D., Indiana University, 1979. Specialties: history and philosophy of biology. Current project: evolutionary biology in the atomic age, a study of an interconnected set of conceptual, methodological, and social policy issues facing evolutionary biologists in the 1940s, 1950s, and 1960s.

#### Peter Dear

Assistant Professor of History and History of Science, Department of History, Cornell University. Ph.D., Princeton University, 1984. Specialties: history of early modern science and philosophy. Selected publications: *Mersenne and the Learning of the Schools* (Cornell, forthcoming); "Totius in verba: Rhetoric and Authority in the Early Royal Society," *Isis*, 1985, 76:145-161; "Jesuit Mathematical Science and the Reconstitution of Experience in the Early Seventeenth Century," *Studies in History and Philosophy of Science*, 1987; contributor to *The Cambridge History of Seventeenth-Century Philosophy* (in preparation). Current project: study of the cognitive status of experiment and its presentation in the seventeenth century. Statement: Improvement in the Society's finances has enabled the establishment of various admirable undertakings, not least the Unaffiliated Scholars and Visiting Historians of Science programs. I support these recent initiatives and would wish to

maintain and extend such attempts to widen both the scholarly and the pedagogical base of the Society.

#### Peter Galison

Cochair, Program in History of Science, Stanford University. Ph.D., Harvard University, 1983. Specialties: history of twentieth-century physics; seventeenth-century natural philosophy. Professional activities: American Physical Society—Executive Committee, History of Physics division. West Coast History of Science Society—Secretary-Treasurer. Selected publications: *How Experiments End* (Chicago, 1987); "Bubble Chambers and the Experimental Workplace," in *Observation, Experiment and Hypothesis in Modern Physical Science*, ed. P. Achinstein and O. Hannaway (MIT, 1985); "Descartes's Comparisons: From the Invisible to the Visible," *Isis*, 1984, 75:311-326. Current project: work on the history of detectors and material culture of modern physics, from the cloud chamber to the massive collaborative enterprises of CERN and the SSC; expansion of the laboratory, including effects of World War II and Cold War on the technology and organization of work.

#### Sharon Kingsland

Associate Professor, History of Science Department, Johns Hopkins University. Ph.D., University of Toronto, 1981. Specialties: history of modern biology. Professional activities: HSS—Schuman Prize Committee, 1984-1985. Selected publications: *Modeling Nature: Episodes in the History of Population Ecology* (Chicago, 1985). Current projects: history of ecol-

ogy, genetics in America. Statement: The Society should continue to broaden awareness of the history of science through interaction with other societies, both historical and scientific. I am especially interested in exploring ways to promote teaching of the history of science within general history courses of the "Western Civilization" type.

#### Kenneth Manning

Professor of the History of Science, Program in Science, Technology, and Society, and Head of the Writing Program, Massachusetts Institute of Technology. Ph.D., Harvard University, 1974. Specialties: the role of blacks in American science and technology; history of medicine; biography. Professional activities: HSS—Lecturer, Visiting Historians of Science Program, 1986-1987. AAAS—Committee on Public Understanding of Science and Technology. Selected publications: *Black Apollo of Science* (Oxford, 1983) (Pfizer Award). Current project: the history of blacks in American medicine.

#### Ernan McMullin

Professor and Director of the Program of History and Philosophy of Science, and Director, Reilly Center for Science, Technology, and Values, University of Notre Dame. Ph.D., University of Louvain, 1954. Specialties: history of the philosophy of science; the natural sciences in the Scientific Revolution; contemporary theory of science. Professional activities: PSA—President, 1980-1982. U.S. National Committee for History and Philosophy of Science—Chair, 1982-1984, 1986-1988. Selected publications: *The Concept of Matter* (1963); *Galileo, Man of Science* (1967); *Newton on Matter and Activity*, (1978). Current projects: development of scientific method in the period from Bacon to Newton; the role of epistemic and nonepistemic factors in scientific



Eman McMullin



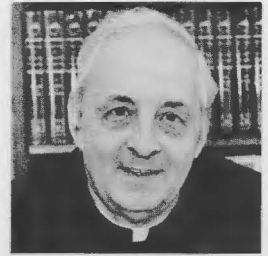
Arthur Molella



Theodore Porter



Martha H. Verbrugge



William A. Wallace

controversies. Statement: One of my aims would be to foster closer links between HSS and other science-related societies in the United States.

### Arthur Molella

Curator and Chair, Department of the History of Science and Technology, Museum of American History, Smithsonian Institution, Washington, D.C. Ph.D., Cornell University, 1972. Specialties: history of physics; relations between science and technology; historiography of technology. Professional activities: SHOT—chair of the Finance Committee; *Technology and Culture* advisory editor. Computer Museum—board of directors. Edison Papers—board of directors. Selected publications: associate editor, *The Papers of Joseph Henry*, Vols. I-IV (Smithsonian, 1972-1981); "The First Generation: Usher, Mumford, Gideon," forthcoming in *In Context: History and the History of Technology*, ed. Stephen H. Cutcliffe and Robert C. Post. Current project: book on the first generation of historians of technology in the United States. Priorities for HSS: Increasing role for HSS in promoting public literacy in science and technology; fostering closer relations between museum and academic historians of science and technology.

### Theodore Porter

Assistant Professor, Department of History, University of Virginia. Ph.D., Princeton University, 1981. Specialties: history of statistics and statistical thinking; history of the modern natural and social sciences. Selected publications: *The Rise of Statistical Thinking, 1820-1900* (Princeton, 1986). Current project: the history of quantification, especially of applied and practical fields, in Western societies of the nineteenth and twentieth centuries. Statement: Its disciplinary autonomy now largely secure, the Society

should continue and extend its efforts to reach out to neighboring fields.

### Martha H. Verbrugge

Associate Professor of History, Bucknell University. Ph.D., Harvard University, 1978. Specialties: history of American science and medicine, especially women's health and popular physiology. Selected publications: *Able-Bodied Womanhood: Personal Health and Social Change in Nineteenth-Century Boston* (Oxford, forthcoming); "Emma Perry Carr, 1880-1972," in *Notable American Women: The Modern Period*, ed. Barbara Sicherman et al. (Harvard, 1980); "The Social Meaning of Personal Health: The Ladies' Physiological Institute of Boston and Vicinity in the 1850s," in *Health Care in America: Essays in Social History*, ed. Susan Reverby and David Rosner (Temple, 1979); "Women and Medicine in Nineteenth-Century America," *Signs*, 1976, 1:957-972. Current project: women and the professionalization of physical education in America, 1880-1940. Statement: As a Council member, I would further the Society's efforts to promote the history of science at liberal arts colleges and small universities.

### William A. Wallace

Professor, Philosophy and History 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, 1974-1977; Research Committee, Chair, 1977-1978. Selected publications: *Prelude to Galileo* (Reidel, 1981); *Galileo and His Sources* (Princeton, 1984); editor, *Reinterpreting Galileo* (Catholic Univ. of America, 1986). Current project: Galileo's logical treatises—dating, sources, English translation with commentary. Statement: I am interested in maintaining interest within the HSS 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 COUNCIL

### Muriel Blaisdell

Associate Professor of Interdisciplinary Studies, Miami University, Oxford, Ohio. Ph.D., Harvard University, 1976. Specialties: history of biology; history of evolutionary biology; science and religion. Professional activities: Lilly Endowment—Post-Doctoral Teaching Awards Program. HSS—Session Chair, 1983. Selected publications: "Natural Theology and Nature's Disguises," *Journal of the History of Biology*, 1982, 15(2):163-189; "Mainstreaming Science: The History of Science in a Liberal Arts Curriculum," *Liberal Education*, 1984, 70(1):27-34; "Ann Haven Morgan," in *Notable American*

## BALLOT TO COME BY MAIL

No petition candidates have been received. Ballots for the election will be sent separately to each HSS member in **late July or early August**. Please contact the HSS Secretary, Edith Sylla, Box 8101, North Carolina State University, Raleigh, NC 27695-8101, if you have not received a ballot by late August.



Muriel Blaisdell



Robert Frank



John C. Greene



Jane Maienschein



Ronald Overmann

*Women: The Modern Period*, ed. Barbara Sicherman et al. (Harvard, 1980).

### Robert Frank

Associate Professor of Medical History and History, University of California, Los Angeles. Ph.D., Harvard University, 1971. Specialties: seventeenth and nineteenth to twentieth centuries; history of biology and the medical sciences. Professional activities: HSS—Annual Meeting Local Arrangements Chair, 1981; Council, 1985–1987. *Journal of the History of Biology*—Associate Editor, 1973–1980. *Journal of the History of Medicine*—Board of Editors, 1979–1982. West Coast HSS—Secretary-Treasurer, 1981–1983. Selected publications: *English Scientific Virtuosi in the 16th and 17th Centuries* (Clark Library, 1979); *Harvey and the Oxford Physiologists: Scientific Ideas and Social Interaction* (California, 1981; Il Mulino, 1983); "Science, Medicine, and the Universities of Early Modern England," *History of Science*, 1973, 11:194–216, 239–269.

### John C. Greene

Professor of History, University of Connecticut. Ph.D., Harvard University, 1952. Specialties: history of evolutionary biology and of early American science. Professional activities: HSS—Secretary, Vice-President, and President, 1975–1977. International Academy of the History of Science—corresponding member. *Journal of the History of Biology*—Consulting Editor. Selected publications: *The Death of Adam: Evolution and Its Impact on Western Thought* (1959); *American Science in the Age of Jefferson* (1984). Current project: science, ideology, and world view in the "modern synthesis" in evolutionary biology.

### Jane Maienschein

Associate Professor of Philosophy (teaching history of science), Arizona State

University. Ph.D., Indiana University, 1978. Specialties: history and philosophy of life sciences, especially modern American biology and its European roots. Professional activities: HSS—Finance Committee, 1985–1988; National Committee Visiting Historians of Science, 1985–1987; Watson Davis Prize Committee, 1987; Council, 1987–1989. AAAS—Section L Nominating Committee, 1986–1988. American Society of Zoologists—Nominating Committee, HPS Division, 1986. History of Science in America—Governing Group, 1985–1986. Selected publications: editor, *Defining Biology: Lectures from the 1890s* (Harvard, 1986). Forthcoming work: *An Autobiography of the Marine Biological Laboratory* (an informal history); coeditor with Ron Rainger and Keith Benson, *The Emergence of Biology in America*.

### Ronald Overmann

Program Director, History and Philosophy of Science Program of the National Science Foundation; Assistant to Program Director of NSF, 1973–present. Ph.D., Indiana University, 1974. Professional activities: HSS—Council, 1987–1989; Research Committee. Congressional Fellow, staff of Senator George Mitchell (Maine), 1983–1984. Current projects: Establish new postdoctoral program in HPS; new guidelines for HPS proposals; promote new support of HPS in secondary school history and science curricula and in university engineering and mathematics curricula.

### John 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, 1986–1988; Program Committee Cochair, annual meeting (Raleigh), 1987;

Education Committee. Selected publications: "Mathematics and the Physical Sciences in America, 1880–1930," *Isis*, 1986, 77:611–629; "The Industrial Relations of Science: Chemical Engineering at MIT, 1900–1939," *Isis*, 1980, 71:531–549.

Current project: a book on the history of industrial sponsorship of academic research.

## FOR NOMINATING COMMITTEE FROM THE SOCIETY AT LARGE

### Stephen Brush

Professor, Department of History and Institute for Physical Science and Technology, and Chair, Committee on the History and Philosophy of Science, University of Maryland at College Park. D. Phil., Oxford University, 1968. Specialties: history of physical science since 1800, especially astrophysics and geophysics; use of history in teaching science. Professional activities: HSS—Council, 1979–1981; *Isis* Advisory Editor, 1978–1985; Washington Representative, 1985–present; Committee on Undergraduate Education, Pfizer Award Committee, Schuman Prize Committee; Zeitlin-Ver Brugge Prize Committee. American Physical Society—founding editor, *History of Physics Newsletter*; Council, 1986–present, representing History of Physics Division. Selected publications: *The Kind of Motion We Call Heat: A History of the Kinetic Theory of Gases in the 19th Century* (North Holland, 1976, 1986) (Pfizer Award); *Statistical Physics and the Atomic Theory of Matter from Boyle and Newton to Landau and Onsager* (Princeton, 1983); *The History of Modern Science: A Guide to the Second Scientific Revolution, 1800–1950* (Iowa State, 1987); "Should the History of Physics Be Rated X?" *Science*, 1974, 183:1164–1172. Current project: theories of the origin and structure of the solar system.



John Servos



Stephen Brush



Arthur Donovan



Paul Farber



Michael McVaugh

### Arthur Donovan

Professor of History and of Science and Technology Studies, Virginia Polytechnic Institute. Ph.D., Princeton University, 1970. Specialties: science in the Enlightenment; theories of scientific change; eighteenth-century Scottish science; Lavoisier and the chemical revolution; history of engineering. Professional activities: HSS—Council, 1982–1984; Program

study of Lavoisier, the chemical revolution, and science in the Enlightenment.

### Paul Farber

Professor and Chair of General Science Department, Oregon State University. Ph.D., Indiana University, 1970. Specialties: history of life sciences; natural history; evolution. Professional activities: HSS—Council, 1978–1981; Undergradu-

### Michael McVaugh

Professor of History, University of North Carolina at Chapel Hill. Ph.D., Princeton University, 1965. Specialties: history of medieval and early modern science and medicine. Professional activities: HSS—Council, 1971–1973; Program Committee Chair, annual meeting (Atlanta), 1975; Local Arrangements Committee, annual meeting (Raleigh), 1987; Pfizer Award

for the 1987 Annual Meeting in Raleigh. MICA promises to save 5% off all published promotional fares (meeting all restrictions) or 35% off regular roundtrip coach fares (with seven-day advance purchase). The lowest published promotional fares require a Saturday night stay, are subject to airline cancellation or change penalties, and must be purchased at least thirty days prior to departure.

To get these rates for reservations on all airlines, call MICA (Suite 303, 195 Farmington Avenue, Farmington, CT 06032) directly on their nationwide toll-free num-

ber, 1-800-826-6011, or (203) 678-1080 in Connecticut, Monday–Friday, 9:00 a.m.–5:30 p.m. E.S.T.

MICA reservationists can also arrange discounted car rentals through National Car Rental, or call National directly at 1-800-328-7949 and mention Recap Number 6301028.

Since current rates fluctuate widely, the local arrangements committee advises you to check other discount fares with your local travel agent before calling MICA. American Airlines is in the process of building a new terminal and of opening

a hub at Raleigh-Durham, and the number of American Airlines flights to Raleigh is expected to jump sharply between now and the October meeting.

### AIRPORT TRANSPORTATION

The Radisson Plaza Hotel Raleigh has two vans that provide free shuttle service from the airport on a first-come, first-served basis. To use this service, it is best to call the hotel on the courtesy phone provided

*Annual Meeting information continues*

## NEWS OF THE SOCIETY

### HSS/SHOT Annual Meeting Raleigh, 29 October– 1 November 1987

#### PROGRAM

The program for sessions sponsored by HSS, followed by the sessions sponsored by SHOT, appears on pages 11–20.

#### PREREGISTRATION AND HOTEL RESERVATIONS

The preregistration form for the annual meeting appears on page 6. Please fill this out **as soon as possible**, since the local arrangements committee will organize various tours in response to demand (see below).

The official hotel for the meeting will

be the Radisson Plaza, 420 Fayetteville Mall, Raleigh, NC 27601; telephone (919) 834-9900. Room rates (subject to applicable taxes) will be \$59 for a single or double, with \$10 additional for a third or fourth person in the same room. Accommodations will not be confirmed without a check for the first night's deposit or a credit card number, as indicated on the reservation form. The form should be returned in the enclosed reservation envelope directly to the Radisson Plaza by **1 October**. For better choice of accommodations, early reservations are suggested. If the block of rooms reserved for HSS/SHOT in the Radisson is filled, reservations will be directed to nearby motels, for instance, to the Holiday Inn State Capital, at 320 Hillsborough Street; telephone

(919) 834-9900; or the Econo Lodge Downtown, at 309 Hillsborough Street; telephone (919) 833-5771.

#### TRIANGLE AREA TOURS

Some members have said that they would like to see the National Humanities Center or Duke, NCSU, or UNC while they are in North Carolina. SHOT has often had a tour on Thursday afternoon to a site of technological interest. The local arrangements committee will attempt to organize such tours if there is sufficient demand. Please indicate your interest on the preregistration form.

#### DISCOUNT AIR FARES

HSS and SHOT have made arrangements with Meetings, Incentives, Conventions of America, Inc. (MICA), for discounted fares on American and Piedmont Airlines

Editor of its journal *Isis*, for a five-year term (renewable) to begin January 1989. The Society's Committee on Publications will conduct the search.

*Isis* is now produced at the Society's Office of Publications at the University of Pennsylvania; the Office may remain there regardless of the institutional home of the new Editor. The extremely high quality of the various services currently performed by the Office makes the Society hesitant to move it elsewhere. However, the location of the Office of Publications (and its component parts) can be a matter of discussion between the Committee and

those nominated or making inquiry will be sent an information packet and will be requested, if they so choose, to submit a preliminary application for the editorship, including a curriculum vitae and a discussion of what their plans and vision for the journal may be. In the second stage the Committee will select a short list of candidates and ask each to provide a full proposal for the conduct of the editorship, including details concerning institutional arrangements and support. The Committee would like to have preliminary applications no later than **15 September**. It expects to meet with the short-listed

Gregory Romstedt, Department of History, Maxwell School, Syracuse University, Syracuse, NY 13210.

#### NEW HSS EXECUTIVE SECRETARY

As the *Newsletter* went to press, a majority of the HSS Council had voted in favor of accepting the recommendation of the special search committee and offering the newly established position of Executive Secretary of the Society to Michael M. Sokal of Worcester Polytechnic Institute. More details of this new appointment, to begin officially 1 January 1988, will appear in later *Newsletters*.

## DECEMBER 1988 CINCINNATI HSS MEETING

Members of HSS are invited to submit preliminary proposals for sessions for the 1988 annual meeting, which will be held jointly with the American Historical Association in Cincinnati, Ohio, on 27–30 December 1988. Ideas for joint sessions are especially welcome. Send preliminary proposals or suggestions for sessions by **15 October** to either Shirley Roe, Department of History, University of Connecticut, Storrs, CT 06268; or Joan Richards, Department of History, Brown University, Box N, Providence, RI 02912. Local arrangements chair for the meeting is Alan Rocke.

## JULY 1988 JOINT MEETING IN MANCHESTER, ENGLAND

The History of Science Society will be meeting jointly with the British Society for the History of Science in Manchester, England, 11–15 July 1988. A preliminary program and reservation forms will be available by 1 November 1987. Participants are urged to apply to the ACLS for travel grants (Christine M. Gillis, American Council of Learned Societies, 228 East 45th Street, New York, NY 10017). To request application forms, persons should address an inquiry to the Travel Grant Office of the ACLS, setting forth the name, dates, place, and sponsorship of the meeting, as well as a brief description of the nature of the applicant's scholarly interests and his or her proposed role in the meeting. The deadline for completed applications is **1 March 1988**; prospective applicants should request forms **well in advance** of this deadline. The HSS is also seeking funds for travel grants from the National Science Foundation. For further information about the Manchester meeting, contact Ronald L. Numbers, Department of the History of Medicine, University of Wisconsin, 1300 University Avenue, Madison, WI 53706; or John Pickstone, Department of Science and Technology Policy, University of Manchester, Manchester M13 9PL, England.

## THEMATIC MEETINGS

Reminder: The next deadline for applying for HSS sponsorship or endorsement of thematic meetings is **15 September 1987**. For details, see the January 1987 *Newsletter*, page 3.

## VISITING HISTORIANS OF SCIENCE PROGRAM, 1988–1989

The Visiting Historians of Science Program (VHSP) has now nearly completed its first cycle, with the current list of speakers expected to finish their terms of service at the end of 1987. The National Committee of the VHSP has chosen a new list of speakers for 1988–1989. They include William B. Ashworth, B. J. T. Dobbs, Robert Frank, Edward Grant, Mott Greene, Frederick Gregory, Sandra Herbert, F. L. Holmes, Robert Kargon, Sally Kohlstedt, and Ronald Numbers; one or two additional speakers are still to be picked. A pamphlet listing the talks that the speakers propose to give is expected to be available in August. In a change from the first cycle, this time there will be target deadlines for applications for speakers: **15 October**, for talks to be given in the following spring semester or later, and **15 April** for talks to be given the following fall. To obtain a pamphlet describing the program in 1988–1989 and an application form, write to Edith Sylla, School of Humanities and Social Sciences, Box 8101, North Carolina State University, Raleigh, NC 27695.

## NEW GUIDELINES FOR ASSOCIATE SCHOLARS PROGRAM

The History of Science Society is pleased to announce new guidelines for its Associate Scholars Grants Program, designed to aid scholars trained in the history of science who are unemployed, unaffiliated with any institution making use of their training as historians of science, or employed either part-time or without prospects of continuation or renewal. The HSS Associate Scholars Program enables unaffiliated scholars to enhance their professional capabilities by providing them with opportunities to polish and extend their competence in fields of scholarly interest; to explore new areas of scholarship or learn new techniques; and to perform the research necessary to revise their dissertations, complete other works in progress, and (to a limited degree) begin new projects.

In addition to the grants-in-aid to facilitate research or travel to prospective job interviews already in place (see *HSS Newsletter*, January 1986, p. 5), the History of Science Society is now making available several short-term postdoctoral fellowships of up to \$5,000 each to support programs of study and research at universities and other institutions lasting

from one month to one semester. Examples of such programs of study might include participation in an advanced graduate seminar (at a host department, center, or institute) on a topic in which the applicant is especially interested, either to strengthen his or her professional expertise or to begin to extend his or her expertise in a new direction; directed research and study with a mentor at a sponsoring institution; or research using the unique resources of a particular host library, manuscript repository, or discipline history center.

Institutions that have already agreed to serve as hosts for HSS Associate Scholars include the American Antiquarian Society (Worcester, MA), the American Philosophical Society Library (Philadelphia), the Center for History of Chemistry (Philadelphia), the Hagley Museum and Library (Wilmington, DE), the Francis C. Wood Institute of the College of Physicians of Philadelphia, the National Museum of American History (Washington, DC), and the history of science and technology programs of Imperial College, London, and the Universities of Maryland, Minnesota, and Oklahoma. The title, resources, and other privileges of affiliation with host institutions vary from case to case; prospective applicants should contact either Diana Long or Joseph Dauben (see below) for more detailed information on specific institutions. Please note that applicants may choose to study at other institutions not listed above; the list is suggestive, not exclusive.

*Eligibility.* Applicants must have received a Ph.D. in the history of science, technology, medicine, or a related field closely affiliated with the history of science. Membership in the History of Science Society is *not* a prerequisite, nor shall preference be given to applicants on the basis of age or previous academic or other affiliations.

*Application procedures.* Applications should (1) indicate whether the applicant is interested in the grants-in-aid (up to \$2000) or short-term postdoctoral fellowships (up to \$5000); and (2) contain a two-page curriculum vitae; a proposed budget, and a brief (three pages or less) statement of the proposed program of study, including a discussion of how it will enhance the applicant's professional competence and a description of the applicant's career expectations in general and short-term prospects in particular. Applications for *short-term* postdoctoral fellowships must

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also include a statement from the prospective host institution or individual agreeing to work with the applicant in accordance with the proposed program of study, or to make available the research collections and other resources he or she proposes to use.

Six copies of completed applications should be sent to Dr. Joseph W. Dauben, HSS Coordinator of Program, Department of History, Herbert H. Lehman College, CUNY, Bedford Park Boulevard West, Bronx, NY 10468; telephone (212) 960-8289. Applications received by **15 August 1987** for the fall semester will be acted upon immediately. The deadlines for committee meetings in future will be **15 October** (for support after 1 January) and **15 April** (for support after 1 July), although the committee will respond expeditiously to emergency requests. Grants-in-aid and postdoctoral fellowship awards will be made by the HSS Unaffiliated Scholars Committee, chaired by Diana Elizabeth Long of the Francis C. Wood Institute. Other members of the committee are David K. Allison (National Museum of American History), William Aspray (Charles Babbage Institute), Pamela E. Mack (Clemson University), and Jeffrey L. Sturchio (Center for History of Chemistry).

These fellowships will be awarded to unaffiliated scholars who have little or no other sources of support for their professional activity. Programs of study that would simply allow an applicant to remain at the institution that awarded his or her Ph.D. will generally not be supported. Proposals that would help the applicant to complete a project already begun will, *ceteris paribus*, receive priority over proposals in which the applicant would begin a new project. Those who receive awards will be designated "Associate Scholars of the History of Science Society," and each successful applicant will receive an honorary annual membership, including subscriptions to *Isis* and the *Newsletter*.

The Associate Scholars Grants Program of the History of Science Society has been made possible in part through a generous grant from the Rockefeller Foundation, supplemented with funds from the C. Doris Hellman Pepper Memorial Fund and the Culpeper Foundation and by gifts from the membership of HSS. The continuing support of the City University of New York is also gratefully acknowledged.

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further agreed that a principal route to achieving this broader sense of scientific literacy is through instruction in the history of science and technology.

In general, topics in the history of science and technology are inadequately covered in current precollege history courses. Conference participants unanimously and enthusiastically recommended that the projected reform address the role of science and technology in shaping modern society.

A steering committee composed of representatives from HSS, SHOT, AHA, NCSS, and SHE has formally recommended to NSF ways in which funding could be used: for new instructional materials in the history of science and technology; for training secondary school history teachers in institutes, workshops, seminars, and conferences; for projects that bring together history and science teachers at the same school; for release time for secondary school teachers so they might pursue innovative means of instruction in history of science and technology; and for the writing of chapters or complete texts designed for American and European history survey courses.

Efforts to achieve the goals of the conference are already in progress. Historians of science are participating in the AAAS Project on Liberal Education and the Sciences; the pilot meeting was held in June. A special session on "Integrating the History of Science and Technology into the United States History Curriculum," sponsored by the HSS Committee on Education for the December 1987 annual meeting of the AHA, will feature John L. Heilbron and Daniel J. Kevles as speakers. The 1989 or 1990 topic for National History Day (the equivalent of a science fair) will be in the history of science and technology; students across the nation will compete for a prize for the best essay. The Educational Testing Service has committed itself to including topics in the history of science and technology in its curricular recommendations to secondary schools and on its achievement and advanced placement examinations in European and American history.

The involvement of historians of science in this curricular reform is both strategic and timely. Many organizations, such as the National Commission on Social Studies and the American Association for the Advancement of Science, have already begun curricular reform projects. The American Historical Association has recently shown its interest in teaching the history of science in survey courses by publishing two articles, by John Servos and Bruce Eastwood, in the *AHA Perspectives* (January and March 1987 issues). In addition, over the past few years, the Educational Testing Service has asked historians of science to assist in the construction of some of its history examinations.

The HSS Committee on Education will participate in these curricular efforts to the fullest. In order to coordinate our efforts, the HSS CoE will meet with its sister committee from SHOT at the annual convention this October in Raleigh. Other interested members of the Society are invited to attend. A joint meeting, at which the curricular reform effort will be discussed more intensively, is also on the agenda. Over the next few years interested members of HSS and SHOT will be directly involved with high school teachers and professional organizations in shaping new modules for history courses, or even in constructing entire courses.

It was remarked at the Georgetown conference that the curricular reform now under construction for American secondary schools is extensive, surpassing that of the 1930s, when the last great reform effort took place. It is my personal hope that historians of science will rise to this challenge. The abundant results of our historical scholarship will have to be reworked so that they can be used in other pedagogical settings and disseminated to a larger audience. The task before us, as I see it, is not just to understand the past but to employ our knowledge in ways that help us—and others—to reflect actively upon the role of science and technology in the present.

# History of Science Society Annual Meeting

Raleigh, North Carolina  
29 October–1 November 1987

Participants who will need slide projectors or special arrangements for their papers should contact Professor Edith Sylla, Local Arrangements Co-Chair, School of Humanities and Social Sciences, North Carolina State University, Box 8101, Raleigh, North Carolina 27695-8101, **before 15 September**.

Please report errors and changes to Professor John W. Servos, Program Co-Chair, Department of History, Amherst College, Amherst, Massachusetts 01002, **before 20 August**.

## Thursday, 29 October

**HSS Council Meeting**  
2:00 p.m.–9:00 p.m.

## Friday, 30 October

**Meeting of the HSS Committee on Research and the Profession**  
7:00 a.m.–9:00 a.m.

### 1. The Mechanical Philosophy

9:00 a.m.–11:30 a.m.

Organizer and chair: Margaret J. Osler (University of Calgary)

Lisa T. Sarasohn (Oregon State University): *Ethics and the Mechanical Philosophy: The Case of Pierre Gassendi*

Lynn S. Joy (Vanderbilt University): "Nature" and Nature in the Seventeenth Century: *The Mechanical Philosophy Reexamined*

Thomas Lennon (University of Western Ontario): *Physical and Metaphysical Atomism, 1666–1682*

### 2. American Nuclear Power Policy: Controversy and Debate

Cosponsored by SHOT  
9:00 a.m.–11:30 a.m.

Organizer and chair: George T. Mazuzan (NSF)

Roger M. Anders (U.S. Department of Energy): *The Civilian Nuclear Power Debate during the Kennedy Years*

John W. Johnson (Clemson University): *The "Coal Boys" Attempt to Split the Atomic Lobby: A Tale of Two Technologies and Government Policy in the 1960s*

Brian Balogh (Harvard University): *Experts Everywhere: Nuclear Reactor Safety, 1947–1973*

Comment: J. Samuel Walker (U.S. Nuclear Regulatory Commission)

### 3. Theory and Observation in Meteorology

9:00 a.m.–11:30 a.m.

Organizer and chair: Mary Ellen Bowden (Harvard University)

Mary Ellen Bowden: *Johannes Kepler and David Fabricius: Astrologically Motivated Research in the Early Seventeenth Century*

Theodore S. Feldman (University of Southern Mississippi): *The Influence of Geographical Exploration on Meteorology in the Early Nineteenth Century*

James R. Fleming (American Meteorological Society): *Extinct Meteorological Instruments: Some Examples from Nineteenth-Century America*

Robert Marc Friedman (Uppsala University and Johns Hopkins University): *Toward an Archaeology of Meteorological Perception*

### 4. The Politics of Anthropological Theory in the Interwar Years

9:00 a.m.–11:00 a.m.

Organizer: Herman Lebovics (State University of New York, Stony Brook)

Chair and comment: Robert Nye (University of Oklahoma)

Herman Lebovics: *Louis Marin, French Politics, and the End of the Conservative Tradition of French Anthropology, 1920–1944*

William Schneider (University of North Carolina, Wilmington): *The Influence of Political and Social Setting on the Reception of Blood Group Research in Physical Anthropology*

### 5. Religion and Evolutionary Naturalism since Darwin

9:00 a.m.–11:30 a.m.

Organizer: Bernard Lightman (York University)

Chair: Sandra Herbert (University of Maryland, Baltimore County)

James R. Moore (Open University): *Of Love and Death: Why Darwin "Gave Up" Christianity*

Bernard Lightman: *Ideology, Evolution, and Late Victorian Agnostic Popularizers*

John R. Durant (Oxford University): *Evolution and Ethics: Ethology, Sociobiology, and the Naturalization of Religious Values*

Comment: John C. Greene (University of Connecticut)

**6. Eugenics and Mental Testing: Conflicting Interpretations**

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

Organizer and chair: Garland E. Allen (Washington University, St. Louis)

Barry Mehler (University of Illinois): *Losing Ground: IQ Testers' Perceptions of Fertility Differentials with Respect to Intelligence, 1920-1985*

Steve Selden (University of Maryland): *Eugenics, Social Hierarchies, and the Mental Test: The Case of Leta Stollingsworth and Edward L. Thorndike*

Leila Zenderland (California State University, Fullerton): *Education, Medicine, and the New Biology: The Early Mental Testing Controversies, 1908-1918*

Comment: Franz Samelson (Kansas State University)

**7. Natural History in the American South I****Cosponsored by the Society for the History of Natural History**

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

Organizer and chair: William A. Deiss (Smithsonian Institution Archives)

Lester Stephens (University of Georgia): *John McCrady, Pioneering Embryologist in the Old South*

Charlotte Porter (Florida State Museum): *William Bartram and American Natural History*

Albert Saunders (Charleston Museum): *The Charleston Museum and the Promotion of Science in Antebellum South Carolina*

Ronald S. Wilkinson (Library of Congress): *John Abbot and His Contributions to Smith and Abbot, The Natural History of the Rarer Lepidopterous Insects of Georgia (1797)*

**8. Problems Regarding the Nature of Science in Late Medieval Philosophy****Cosponsored by the Society of Medieval and Renaissance Philosophy**

9:00 a.m. - 11:00 a.m.

Organizers: Stephen F. Brown (Boston College)  
John Murdoch (Harvard University)

Chair: Edward P. Mahoney (Duke University)

Steven J. Livesey (University of Oklahoma): *The Unity of Science in John of Reading*

E. J. Ashworth (University of Waterloo): *De obligationibus of Ralph Strode: An Aspect of Late Medieval Logic at Oxford*

**9. Works in Progress: Mathematics and the Physical Sciences in the Modern Era**

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

Chair: Kathryn Olesko (Georgetown University)

Michael J. Crowe (University of Notre Dame): *The John Herschel-William Whewell Correspondence*

Edward R. Hogan (East Stroudsburg University): *The Last Amateur: William Lenhart and Nineteenth-Century American Mathematics*

Helge Kragh (Cornell University): *The Aether in fin de siècle Chemistry*

Anthony N. Stranges (Texas A&M University): *The Development of Synthetic Fuels in Japan in the 1930s-1940s*

Ron Doel (Princeton University): *Uniting Geophysics with Astronomy: Planetary Astronomy after World War II*

Frederik Nebeker (Princeton University): *The Importance of Computational Aids in Meteorology*

**Workshop: Grant Seeking in the History of Science and Technology****Jointly sponsored by SHOT**

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

Organizer and chair: Seymour H. Mauskopf (Duke University)

Participants: Daniel P. Jones (National Endowment for the Humanities)

Ronald J. Overmann (National Science Foundation)

Kent Mulliken (National Humanities Center)

**Workshop: Archives of Twentieth-Century Technology and Science, New Acquisitions, 1982-1987****Cosponsored by SHOT**

1:00 p.m. - 2:15 p.m.

Organizer and chair: Darwin H. Stapleton (Rockefeller Archive Center)

Participants: Edward C. Carter II (American Philosophical Society Library)

Judith Goodstein (California Institute of Technology)

Darwin H. Stapleton

**HSS Business Meeting**

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

**10. Robert Boyle and His Legacy**

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

Organizer: Anita Guerrini (University of Minnesota)

Chair: Richard S. Westfall (Indiana University)

Margaret J. Osler (University of Calgary): *The Intellectual Sources of Robert Boyle's Philosophy of Nature*

Robert Markley (University of Washington): *Boyle "Epitomiz'd": Richard Boulton, Peter Shaw, and the Rewriting of Matter Theory in the Early Eighteenth Century*

Anita Guerrini: *British Chemical Lecturers, 1700-1735*

Comment: Betty Jo T. Dobbs (Northwestern University)

**11. The Idea of Progress in Different Cultures**

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

Organizer and chair: Ralph W. Brauer (University of North Carolina, Wilmington)

Edward Grant (Indiana University): *Was There an Idea of Progress in the European Middle Ages?*

A. I. Sabra (Harvard University): *Ideas of Scientific Advancement in Medieval Islam*

Joseph B. Henderson (Louisiana State University): *The Emergence of the Idea of Progress in Late Traditional Chinese Thought*

## 12. Science and Regional Development Cosponsored by SHOT

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

Organizer: George Wise (General Electric Company)

Chair and comment: Helen Samuels (Massachusetts Institute of Technology)

Judith Goodstein (California Institute of Technology): *Caltech and the California Aircraft Industry*

Henry Lowood (Stanford University): *Steeple of Excellence and Valley of Silicon: Origins of the University Connection at Stanford, 1937-1958*

George Wise, *Why the Robots Didn't Devour Schenectady*

## 13. French Images of Science, Technology, and Society in the Nineteenth and Twentieth Centuries Cosponsored by SHOT

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

Organizer and chair: Harry W. Paul (University of Florida)

Sara Joan Miles (Wheaton College): *Clémence Royer's Image of Darwinism: The French Edition of The Origin of Species: traduttore or traduttore?*

Marguerite Bistis (Brown University): *The Interaction of Science and Philosophy in fin de siècle France*

Robert L. Frost (State University of New York, Albany): *Images of Progress: Technology as Productive and Domestic Science in France, 1920-1960*

Comment: Joy Harvey (Harvard University)

## 14. Historical Studies of American Antievolutionism

2:30 p.m. - 5:30 p.m.

Organizer and chair: Christopher P. Toumey (North Carolina State University)

Edward J. Larson (University of Georgia): *The Road to Louisiana: The Last Phase of Antievolutionary Legal Activity*

George E. Webb (Tennessee Technical University): *Antievolutionism in the Far West: A Preliminary View*

Tom McIver (University of California, Los Angeles): *Isaac Newton Vail's Annular System and Its Born-Again Creation-Science Second Coming*

Christopher P. Toumey: *Creationism in North Carolina*

Comment: Edward B. Davis (Messiah College)

## 15. Professions and Communities: Disciplinary Societies in America, 1876-1914

2:30 p.m. - 5:30 p.m.

Organizer: Toby A. Appel (Center for the History of Microbiology, University of Maryland, Baltimore County)

Chair: Robert E. Kohler (University of Pennsylvania)

James J. Bohning (Wilkes College and Center for History of Chemistry): *Chemistry and the American Chemical Society (1876)*

Michele Aldrich (AAAS): *Geology and the Geological Society of America (1888)*

Toby A. Appel: *Mapping the Life Sciences: The Diversity of Biological Societies*

Marc Rothenberg (Joseph Henry Papers, Smithsonian Institution): *Supporting a Community: The Early Years of the American Astronomical Society and the American Association of Variable Star Observers*

## 16. Thomas A. Edison, Elihu Thomson, and the Etheric Force Controversy

3:30 p.m. - 5:30 p.m.

Organizer: W. Bernard Carlson (University of Virginia)

Chair: Reese V. Jenkins (Rutgers University)

John H. Bryant (University of Michigan): *An Engineering and Scientific Look at the "Etheric Force" Episode*

W. Bernard Carlson: *A Social and Professional Interpretation of the Etheric Force Controversy*

Comment: Jed Buchwald (University of Toronto)

Andrew Pickering (University of Illinois)

## 17. Works in Progress: Geology and Biology in the Modern Era

2:30 p.m. - 4:00 p.m.

Chair: Jane Maienschein (Arizona State University)

Ralph W. Dexter (Kent State University): *Historical Aspects of Agassiz's Lectures on Glacial Geology (1860-1861)*

Stephen Bocking (University of Toronto): *Natural History or Experimental Biology: Stephen Forbes, Jacob Reighard, and the Emergence of American Ecology*

Nancy G. Slack (Russell Sage College): *From Natural History to Professional Botany in New York State, 1832-1882*

M. P. Winsor (University of Toronto): *The New Systematics: Debates on Its Foundations, 1938-1939*

## 18. Works in Progress: Interpreting Symbols, Words, and Behaviors

2:30 p.m. - 4:30 p.m.

Chair: Mordechai Feingold (Boston University)

William B. Ashworth (University of Missouri, Kansas City): *Emblems of Baconianism*

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Louise E. Hoffman (Pennsylvania State University, Harrisburg): *Science and Personality: Uses of Psychological Interpretation in the History of Science*

Robert Marc Friedman (Uppsala University and Johns Hopkins University): *Text, Context, and Quicksand and Studying the Nobel Science Prizes*

#### 19. Works in Progress: The Institutions of Postwar Science

4:00 p.m. - 5:30 p.m.

Chair: Paul H. Theerman (Smithsonian Institution)

Nelson R. Kellogg (Johns Hopkins University): *The AD-X2 Affair: Assault on Federal Science*

Mark Walker (Union College): *What Is in a Name? From Kaiser Wilhelm to Max Planck Society, 1945-1949*

Bruce V. Lewenstein (Cornell University): *Commercial Magazine Publishers and the "Public Understanding of Science and Technology" after World War II*

#### 20. Natural History in the American South II

Cosponsored by the Society for the History of Natural History: Held at the North Carolina State Museum of Natural Sciences.

2:30 p.m. - 5:30 p.m.

Organizer and chair: William A. Deiss (Smithsonian Institution Archives)

Tamara Haygood (University of Texas): *The Changing Nature of Botanical Work in the South*

Eloise F. Potter (North Carolina State Museum of Natural Sciences): *The Life and Times of H.H. Brimley*

Charles Boewe (Filson Club): *The Fugitive Publications of C.S. Rafinesque*

Marcus Simpson (George Washington University): *The British-American Connection in Artist-Naturalists of the American Southeast*

Ron Vasile (Chicago Academy of Sciences): *Rambles in Florida: The Gulf Coast Explorations of William Stimpson*

#### Meeting of the HSS Committee on Education

5:30 p.m. - 6:30 p.m.

#### Reception, North Carolina State Museum of Natural Sciences

6:00 p.m. - 8:00 p.m.

#### Meeting of Contributors to Projected Volume for *Osiris, Science in Germany*

6:30 p.m. - 7:30 p.m.

#### Dinner for the *Isis* Editorial Board

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

#### Forum for the History of Science in America

8:30 p.m. - 9:30 p.m.

## Saturday, 31 October

#### Meeting of the HSS Committee on Meetings and Programs

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

#### Meeting of the HSS Committee on Publications

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

#### 21. The Literary Structure of Scientific Argument

9:00 a.m. - 12:00 noon

Organizer: Peter Dear (Cornell University)

Chair and comment: Owen Hannaway (Johns Hopkins University)

Thomas Broman (Michigan State University): *J. C. Reil's Archiv für die Physiologie and New Standards of Medical Wissenschaft at the End of the Eighteenth Century*

Peter R. Dear: *The Cognitive Status of Experimental Reports in Seventeenth-Century Scientific Argument*

Frederic L. Holmes (Yale University): *Narrative and Argument in Scientific Papers*

#### 22. Scientific Communities in America

9:00 a.m. - 12:00 noon

Organizer: John Lankford (University of Missouri)

Chair: Arnold Thackray (University of Pennsylvania)

P. Thomas Carroll (Rensselaer Polytechnic Institute): *The Ecology of Research Careers: American Doctoral Chemists and Chemical Engineers, 1891-1941*

Spencer Weart (American Institute of Physics): *The Organization of the Solid State Physics Community*

John Lankford: *Women in the American Astronomical Community, 1859-1940*

Comment: Margaret W. Rossiter (Cornell University)

#### 23. Topics in the Evolution of Modern Economics

9:00 a.m. - 11:00 a.m.

Organizer: Neil de Marchi (Duke University and University of Amsterdam)

Chair: Margaret Schabas (University of Wisconsin and Harvard University)

E. Roy Weintraub (Duke University): *Issues in the Development of Stability Theory*

Mary Morgan (London School of Economics): *Computing Problems and the Development of Econometrics*

Neil de Marchi: *The Cambridge Didactic Style and Keynesian Macroeconomics*

#### 24. Modern Computing Reexamined: Historical Investigations Cosponsored by the Charles Babbage Institute and SHOT

9:00 a.m. - 12:00 noon

Organizer: William Aspray (Babbage Institute, University of Minnesota)

Chair: Arthur L. Norberg (Babbage Institute, University of Minnesota)

I. Bernard Cohen (Harvard University): *Howard Aiken's Computers: Were New Ideas Encased in Traditional Technology?*

Arthur L. Norberg: *The Perils of Companies on Technological Frontiers: Designing and Manufacturing Electronic Computing Machines in the 1940s*

William Aspray, *The Computer as a Scientific Instrument: A New Climate for Meteorological Science and Practice*

Comment: Michael S. Mahoney (Princeton University)

## 25. *Discours de la methode* and Its Reception

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

Organizer and comment: Roger Ariew (Virginia Polytechnic Institute and State University)

Chair: Peter Barker (Virginia Polytechnic Institute and State University)

Emily Grosholz (Pennsylvania State University): *Some Background to the Geometrie: What Descartes Left Out*

Daniel Garber (University of Chicago): *Descartes, the Aristotelians, and the Revolution That Didn't Happen in 1637*

David Lux (Virginia Polytechnic Institute and State University): *Anti-Cartesianism in the Day-to-Day Practices of the Academies: The Example of Caen*

## 26. Aspects of Nineteenth-Century Mathematics: The Anglo-American versus the Continental

9:00 a.m. - 11:00 a.m.

Organizer and chair: Karen V. H. Parshall (University of Illinois)

Helena Pycior (University of Wisconsin, Milwaukee): *Foci of Early Nineteenth-Century Anglo-American Algebra: Problems, Approaches, and Sources*

Karen V. H. Parshall: *James Joseph Sylvester and Nineteenth-Century Invariant Theory*

David Rowe (Pace University): *Felix Klein's Influence on American Mathematics, 1880-1895*

## 27. Works in Progress: From the Renaissance to the Enlightenment

10:00 a.m. - 12:00 noon

Chair: Alan E. Shapiro (University of Minnesota)

Lesley Cormack (University of Toronto): *The Patronage of Patriotism: Geography at Prince Henry's Court*

Charles D. Kay (Wofford College): *Navigation, Mining, and the Development of Gilbert's Theory of Magnetism*

Howard Margolis (University of Chicago): *A New Account of the Trial of Galileo*

Richard Arthur (Middlebury College): *The Metaphysical Basis of Newton's Method of Fluxions*

Lisa Rosner (Stockton State College): *Experimental Research at Edinburgh University: The View from the Students*

## 28. Works in Progress: Astronomy Before and After Copernicus

10:30 a.m. - 12:00 noon

Chair: Albert Van Helden (Rice University)

James Evans (University of Puget Sound): *On the Origin of the Ptolemaic Star Catalogue*

Judith Wilcox (Monsey, N.Y.): *The Twelfth-Century Latin Versions of Pseudo-Ptolemy's Centiloquium and Their Interest for Historians of Medieval Science*

Irving A. Kelter (Graduate Center, City University of New York): *Diego de Zuñiga: A Sixteenth-Century Theologian and the Reception of Copernicus*

William L. Harper (University of Western Ontario) and Richard Arthur (Middlebury College): *Newton and the Moon: Newton's Proof and Application of His Precession Theory*

## 29. Works in Progress: The Biological Sciences in the Eighteenth and Nineteenth Centuries

11:00 a.m. - 12:00 noon

Chair: To be announced

Kathleen Wellman (Southern Methodist University): *Physiology Structures Philosophy in the Early Enlightenment*

Joy Harvey (Harvard University): *Form, Function, and the Brain in Nineteenth-Century French Science*

Theodore Greenfield (University of Minnesota): *American Neo-Lamarckians and the Explanation of Variation, 1870-1900*

## Luncheon for the Osiris Editorial Board

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

## Meeting of the HSS Women's Committee

1:15 p.m. - 2:15 p.m.

## 30. Science and Practice: The Applied Sciences in the Late Nineteenth Century

2:15 p.m. - 5:00 p.m.

Organizer, chair, and comment: Theodore Porter (University of Virginia)

Bruce Hunt (University of Texas): *The Maxwellians and Telegraphy: The Interaction of Science and Technology*

John Harley Warner (Yale University): *Science, Practice, and Optimism in Late Nineteenth-Century American Medicine*

Margaret Schabas (University of Wisconsin and Harvard University): *Economics and Its Applications: Did the Marginal Revolution Have Policy Implications?*

## 31. Historical, Technical, and Empirical Aspects of Galileo's Early Physics

2:15 p.m. - 5:00 p.m.

Organizer: David K. Hill (Augustana College)

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Chair and Comment: W. R. Laird (University of Toronto)

Winifred Lovell Wisan (Hartwick College): *Galileo's Sources*

Thomas B. Settle (Polytechnic University): *Italian Technical Know-How of the Renaissance and the Emergence of the New Science*

David K. Hill: *Galileo's Work on Trajectories: An Analysis and Demonstration of Quantitative Precision in Early Physics*

### 32. Reformation Theology and the Scientific Revolution

2:15 p.m.-5:00 p.m.

Organizer: Edward B. Davis (Messiah College)

Chair: William B. Ashworth, Jr. (University of Missouri, Kansas City)

Gary B. Deason (St. Olaf College): *Calvin and Natural Science*

Edward B. Davis: *Robert Boyle, Divine Freedom, and the Rejection of Rationalistic Natural Philosophy*

Andrew Fix (Lafayette College): *Angels, Devils, and Evil Spirits in Seventeenth-Century Thought: The Impact of Cartesianism on Protestant Theology*

Comment: David C. Steinmetz (Duke Divinity School)

### 33. German Biology and Its Institutional Context

2:15 p.m.-5:00 p.m.

Organizer and chair: Sheila Faith Weiss (Clarkson University)

Lynn K. Nyhart (Michigan State University): *Between Two Chairs, Between Two Methods: The Dilemmas of German Morphologists in the Late Nineteenth Century*

Kristie I. Macrakis (Harvard University): *The Crisis in German Biology at the Turn of the Century: The "Foundation" of the Kaiser Wilhelm Institute for Biology*

Jonathan Harwood (University of Manchester): *Modernists and Mandarins in Interwar German Genetics*

Comment: Frederick B. Churchill (Indiana University)

### 34. The New Foundations and "Big" Social Science between the World Wars: Science, Ideology, and Policy in America

2:15 p.m.-5:00 p.m.

Organizer and chair: Hamilton Cravens (Iowa State University)

Jill G. Morawski (Wesleyan University): *"Fat Boys": The Social Worlds of Foundation Officials and Academic Social Scientists, 1919-1941*

Stephen Cross (Johns Hopkins University): *Foundation Support for Interdisciplinary Research: Lawrence K. Frank and Social Science*

Walter Jackson (North Carolina State University): *The Carnegie Corporation and Gunner Myrdal's An American Dilemma*

Comment: Hamilton Cravens

William Graebner (SUNY College of Fredonia)

### 35. Darwinism and Entomology

2:15 p.m.-5:00 p.m.

Organizer: Edward H. Smith (Cornell University)

Chair and comment: Muriel Blaisdell (Miami University, Ohio)

William C. Kimler (North Carolina State University): *The Oxford Entomologists and the Darwinian Debate*

W. Conner Sorensen (State of Alaska): *The Influence of Darwinism on Early American Entomology*

Carol M. Anelli (University of Illinois): *Benjamin Dann Walsh: Illinois State Entomologist and Early Proponent of Darwinism*

Edward H. Smith: *Charles Valentine Riley: North American Architect of Applied Entomology*

### 36. Science and the U.S. Constitution

2:15 p.m.-5:00 p.m.

Organizer and chair: David Rhees (American Philosophical Society Library)

I. Bernard Cohen (Harvard University): *Science and the Constitution*

William Stanton (University of Pittsburgh and American Philosophical Society Library): *Pitcher Plants and Principles: The Return of the United States Exploring Expedition*

Marc Rothenberg (Joseph Henry Papers, Smithsonian Institution): *The Smithsonian and the Federal Government: Cooperating Partners*

Comment: John C. Greene (University of Connecticut)  
Don K. Price (Harvard University)

### 37. The *Methode de nomenclature chimique*: Rhetoric and Semiotics of the "New Chemistry"

3:30 p.m.-5:30 p.m.

Organizer: Lissa Roberts (Portland State University)

Chair and comment: Wilda Anderson (Johns Hopkins University)

Lissa Roberts: *Lavoisier and the Rhetoric of Revolution*

Stephen J. Weininger (Worcester Polytechnic Institute and Massachusetts Institute of Technology): *A Semiology of Chemistry: The Aftermath of Nomenclatural Reform*

### 38. Works in Progress: Science in America, 1915-1940

3:30 p.m.-5:30 p.m.

Chair: Robert H. Kargon (Johns Hopkins University)

Richard T. von Mayrhauser (Slippery Rock University): *The Wartime Origins of Standardized Achievement Tests and the Pluralistic Conception of Mind*

Alex Soojung-Kim Pang (University of Pennsylvania): *Edward L. Bowles and Radio Engineering at MIT, 1920-1940*

Larry Owens (University of Massachusetts): *The TVA Meets MIT: Federal-Private-Sector Cooperation in R & D in the 1930s*

Laura Smith Porter (Princeton University): *Scientific Refuge: The Institute for Advanced Study and Emigré Physicists in the 1930s*

#### The History of Science Society Lecture

5:30 p.m.-6:30 p.m.

David C. Lindberg (University of Wisconsin): *What Shall We Do with the Middle Ages?*

#### HSS Cocktail Party

6:30 p.m.-7:30 p.m.

#### HSS Annual Banquet

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

#### Graduate Student Party

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

Open to HSS student members and their guests

### Sunday, 1 November

#### 39. Science, Enlightenment, and Revolution in France For Charles C. Gillispie on his retirement from Princeton

9:00 a.m.-12:00 noon

Organizer: Arthur Donovan (Virginia Polytechnic Institute and State University)

Chair: Seymour Mauskopf (Duke University)

Jacques Roger (Sorbonne and University of Virginia): *Science and Enlightenment*

Robert Fox (Centre de Recherche en Histoire des Sciences et des Techniques, Paris): *Rebuilding Minerva's Shrine: the Problem of Academic Survival during the Revolution*

Arthur Donovan: *Was There a Second Scientific Revolution between 1775 and 1830?*

Comment: Charles C. Gillispie (Princeton University)

#### 40. Honoring the Republication of Science in the Federal Government

Jointly sponsored by SHOT

9:00 a.m.-12:00 noon

Organizer: W. Bernard Carlson (University of Virginia)

Chair: Carroll W. Pursell, Jr. (University of California, Santa Barbara)

Donald C. Swain (University of Louisville): *Impact of Science and the Federal Government: The Author and the Book*

Paul Forman (National Museum of American History, Smithsonian Institution): *Physics in the Federal Government: The Function of Measurement in the Programs of the National Bureau of Standards*

John E. Kelly (JK Research Associates): *The Development and Regulation of Technology by Federal Agencies*

Comment: A. Hunter Dupree (Brown University)

#### 41. New Directions in the History of Chemical Technology

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

See SHOT program, second session under Sunday

### 1987 SHOT PROGRAM

#### Thursday

##### Technology and Culture Editorial Board Meeting

3:00 p.m.-5:00 p.m.

##### SHOT Executive Council Meeting

7:30 p.m.-10:00 p.m.

#### Friday

##### Civil and Structural Engineering History

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

Organizer: Jane Morley (University of Pennsylvania)

Chair: Robert Vogel (National Museum of American History)

Donald C. Jackson (University of Pennsylvania): *Controversy at Big Meadows: John S. Eastwood, John R. Freeman, and the "Psychology" of the Multiple Arch Dam (1911-1913)*

Tom F. Peters (Cornell University): *Border Crossing in Building Technology: Case Studies in Construction History*

Elwin C. Robison (Kent State University): *The Portal Method of Analysis and the Development of the High-Rise*

Comment: Bruce Seely (Michigan Technological University)

##### Explorations in the History and Impact of Communication Technology

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

Organizers and cochairs:

Lori Breslow (Boston University)

Pamela Lurito (Chamberlain Junior College)

Edward Wachtel (Fordham University): *The Impact of Chinese Script on Painting and Poetry*

Helena Wright (National Museum of American History): *Photography in the Printing Press: Collotype Printing for Science, Commerce, and Art*

Susan J. Douglas (Hampshire College): *Jürgen Habermas Meets Mel Kranzberg: What Media Theory Has to Offer the History of Technology, and Vice Versa*

Comment: John Staudenmaier (University of Detroit)

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**The Business of Electric Light and Power in the Twentieth Century**

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

Chair: H. V. Nelles (York University)

James C. Williams (California History Center): *Purveyors of Technology: The California Electrical Cooperative Campaign, 1917-1930*

Richard F. Hirsh (Virginia Polytechnic Institute and State University): *Engineers as Managers: The Electric Utility Industry Experience*

William J. Hausman and John L. Neufeld (College of William and Mary): *Engineers and Economists: Historical Perspectives on the Pricing of Electricity*

Comment: Christopher Armstrong (York University)  
H. V. Nelles

**Society for the History of Technology Business Meeting**

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

**Grant Seeking in the History of Science and Technology**

11:30 a.m. - 12:30 p.m. See HSS program after Session 9

**Archives of Twentieth-Century Technology and Science: New Acquisitions, 1982-1987**

1:00 p.m. - 2:15 p.m. See HSS program after Session 9

**Communications History Interest Group Organizational Meeting**

1:00 p.m. - 2:15 p.m.

**Construction History Interest Group Organizational Meeting**

1:00 p.m. - 2:15 p.m.

**Computer History Interest Group Organizational Meeting**

1:00 p.m. - 2:15 p.m.

**Technological Display in Twentieth-Century America**

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

Organizer: Michael Smith (University of California, Davis)

Chair: Rosalind Williams (Massachusetts Institute of Technology)

Roland Marchand (University of California, Davis): *Four Aesthetics of the Industrial Exhibit*

David Nye (Odense University): *Images of Electrification in the 1930s*

Michael Smith: *Cultures of Procurement: Promotion of Weapons in the Nuclear Age*

Comment: T. J. Jackson Lears (Rutgers University)

**Power in the Political Economy of Twentieth-Century Germany**

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

Organizer: Edmund N. Todd (University of New Haven)

Chair: Arnold Krammer (Texas A&M)

Edmund N. Todd: *The Politics of German Electrification: Regional and National Systems, 1918-1923*

Kenneth S. Mernitz (State University College at Buffalo, New York): *Competition in the German Synthetic Fuels Industry, 1920-1933*

Raymond G. Stokes (Rensselaer Polytechnic Institute): *Whatever Became of Synthetic Fuels in West Germany? The Political Transformation of a Technology*

Comment: Edward W. Constant II (Carnegie-Mellon University)

**Work in Progress**

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

Chair: Stephen Meyer (University of Wisconsin, Parkside)

Linda M. Strauss (Rensselaer Polytechnic Institute): *Automata and Automatism in the Nineteenth Century*

Marianne Rostgard (University of Aalborg): *Women's Work: Changes in Power, Gender Relations, and Technology During the Nineteenth Century in Denmark*

Thomas R. Winpenny (Elizabethtown College): *Changing Work Techniques and Niche Theory as Keys to Nineteenth-Century Artisanal Persistence*

Michael A. Gunderloy (Rensselaer Polytechnic Institute): *Taylor Before Taylorism: The Engineering Origins of Scientific Management*

Brian Price (Purdue University): *Frank B. Gilbreth and the Transformation of the Bricklaying Labor Process, 1908-1911*

**Work in Progress**

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

Chair: Alex Roland (Duke University)

Mark Levinson (University of Maine): *Airfoil Profiles: Experiments, Theory, and Design, 1880-1922: A Comparative Study of the United States and Germany*

William M. McBride (Johns Hopkins University): *Cultural Factors in Strategic Competition: Warship Design Philosophies and the Naval Arms Race, 1900-1939*

Captain Roy F. Houchin II (U.S. Air Force Academy): *The Diplomatic Demise of Dyna-Soar: The Impact of International and Domestic Political Affairs on the Dyna-Soar X-20 Project, 1957-1963*

Margaret E. Courain (National Oceanic and Atmospheric Administration): *History of Applications of Remote Sensing Technology to Weather Forecasting, 1957-1987: Development of a Composite Earth-Based, Space-Based Weather Forecasting Data Resource*

William L. Ziglar (Eastern College): *The Educational Mission of NASA: The Development of Jim Webb's Talent Pool*

**Albatrosses (aerospace) Interest Group Meeting**

5:15 p.m. - 6:30 p.m.

**Jovians (electrical) Interest Group Meeting**

5:15 p.m. - 6:30 p.m.

**Pelicans (chemical) Interest Group Meeting**

5:15 p.m. - 6:30 p.m.

**Panel Discussion—The Daedalus Project: Myth and Human-Powered Aircraft as Teaching Tools**

8:00 p.m. - 10:00 p.m.

Organizer: Deborah Douglas (National Air and Space Museum)

Panel members: John Langford (Massachusetts Institute of Technology)  
 Jack L. Kerrebrock (Massachusetts Institute of Technology)  
 Deborah Douglas  
 Sarah P. Morris (Yale University)

**Saturday****Epistemology of Engineering:****Case Studies from the History of Aeronautics**

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

Organizer and chair:  
 James R. Hansen (Auburn University)

F. E. C. Culick (California Institute of Technology): *Aeronautics 1899-1909: The French-American Connection*

Walter G. Vincenti (Stanford University): *How Did It Become "Obvious" That an Airplane Should Be Inherently Stable?*

John Anderson (National Air and Space Museum): *Comments on the Historical Development of Aerodynamics, and Its Application to Flying Machines*

Comment: Richard P. Hallion (Wright-Patterson Air Force Base)  
 Henry Petroski (Duke University)

**Large-Scale Soviet Technologies**

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

Organizer: Jonathan Coopersmith (Stanford University)

Chair: Carl Mitcham (Polytechnic University)

Paul Josephson (Sarah Lawrence College): *The Historical Roots of the Chernobyl Crisis*

Naum Kipnis (Bakken Library): *High Technology on Government Demand: The Case of Soviet Computers, 1946-1956*

William McHenry (Georgetown University): *Enterprise Level Computing in the Soviet Economy*

Comment: Paul Ceruzzi (National Air and Space Museum)

**Innovation in English Society: 1600-1875**

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

Chair: Eric Robinson (University of Massachusetts, Boston)

William H. Huffman (Sacred Heart College): *The Emergence of High-Quality Steelmaking in Early Stuart England*

John S. Lyons (Miami University, Ohio): *Technical Progress in Powerloom Weaving: Lancashire Cottons, 1800-1850*

Colin F. Baxter (East Tennessee State University): *Joseph Whitworth and the War Office: A Reappraisal of the "Battle of the Guns"*

Comment: Carolyn C. Cooper (Yale University)  
 Charles K. Hyde (Wayne State University)

**Work in Progress**

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

Chair: Stephen H. Cutcliffe (Lehigh University)

Egon E. Loebner (Hewlett Packard Laboratories): *From Maxwell's Art of Theorizing to Pupin's Art of Inventing*

Julian Reitman (University of Connecticut): *An Element of the Nineteenth-Century Railway System: The Lack of Brakes*

John A. Burns (Historic American Engineering Record): *Demonstration Houses: Developments in Construction Technology*

John E. Burke (Johns Hopkins University): *The Birth of the American Computer Industry, 1946-1952*

Diane Q. Webb (University of Pennsylvania): *Two Paths to Building National Science and Technology Capabilities: South Korea and Brazil, 1960-1985*

**SHOT Banquet**

12:00 noon - 2:15 p.m.

**Military Institutions and the Shaping of Technical Learning Since the Industrial Revolution**

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

Organizer: Barton C. Hacker (Oregon State University)

Chair: Martin Reuss (U.S. Army Corps of Engineers)

Barton C. Hacker: *"A Corps of Able Engineers": Military Institutions and Technical Education Since the Eighteenth Century*

Michael A. Dennis (Johns Hopkins University): *No Fixed Position: University Laboratories and Military Patronage at MIT and Johns Hopkins, 1944-1946*

I. B. Holley, Jr. (Duke University): *Training as Technology Transfer: U.S. Air Force Technical Instruction for Foreign Military Personnel*

Comment: J. F. Guilmartin (Ohio State University)  
 Deborah Warner (National Museum of American History)

**Technology and the Nineteenth-Century Cultural Landscape**

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

Chair: Robert C. Post (National Museum of American History)

Carlene Stephens (National Museum of American History): *"The Most Reliable Time": William Bond and Timekeeping for the Railroads of Antebellum New England*

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Roger E. Carp (University of Wisconsin): *The Importance of Form in the Public's Acceptance of New Technology: The Erie Canal as a Case Study*

Jonathan Treitel (Johns Hopkins University): *Locksmithing as a Metaphor for Capitalism in Nineteenth-Century England*

Comment: Joseph Corn (Stanford University)

#### Technology in Traditional Europe

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

Chair: Cecil O. Smith, Jr. (Drexel University)

George F. W. Hauck (University of Missouri, Kansas City): *A Modern Assessment of the Nimes Aqueduct*

E. Malcolm Parkinson (Worcester Polytechnic Institute): *Mounted Combat in Tournaments in Fifteenth-Century Burgundy*

J. Morton Briggs (University of Rhode Island): *Jean Hellot and the Renaissance of French Mining in the Eighteenth Century*

Comment: Bert S. Hall (University of Toronto)

#### Work in Progress

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

Chair: Russell Fries (Center for Defense Analysis)

Robert R. MacMurray (Bloomsburg University): *Patents: Rate, Direction, and the More-Less Effective Distinction; the U.S. Experience, 1790-1836*

John K. Brown (University of Virginia): *Limbs on the Levee: Steamboat Explosions and the Origins of Federal Public Welfare Regulation, 1817-1852*

Joanne Goldman (State University of New York, Stony Brook): *The New York City Sewer System: The Evolution of a Technological and Political Infrastructure*

Steven W. Usselman (University of North Carolina, Charlotte): *Making Invention Anonymous and Innocuous: Patent Policies of American Railroads, 1850-1900*

#### Women in Technological History Interest Group Meeting

5:15 p.m. - 6:30 p.m.

#### Technology Museum Interest Group Meeting

5:15 p.m. - 6:30 p.m.

#### Military History Interest Group Meeting

5:15 p.m. - 6:30 p.m.

#### Technology Studies Interest Group Meeting

5:15 p.m. - 6:30 p.m.

Sessions 2, 12, 13, 24, and 30 on the HSS program are also cosponsored by SHOT.

## Sunday

### Honoring the Republication of *Science in the Federal Government*

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

See HSS program, Session 40

### New Directions in the History of Chemical Technology Cosponsored by the History of Science Society

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

Organizer: Jeffrey L. Sturchio (Center for History of Chemistry)

Chair: J. Nicholas Burnett (Davidson College)

John Kenly Smith, Jr. (Lehigh University): *The Evolution of the American Chemical Industry*

Jeffrey L. Sturchio: *Men, Money, and Molecules: Polymer Science and Technology in the Postwar Era*

Robert F. Bud (Science Museum, London): *The Fermenter and the Museum: Hope and Despair in Biochemical Engineering*

Comment: Terry S. Reynolds (Michigan Technological University)

### Social Construction of Technology

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

Chair: Bruce Sinclair (University of Toronto)

Wiebe E. Bijker (Twente University): *Relevant Social Groups and Interpretive Flexibility: Examples from Bicycles, Bakelite, and Fluorescent Lighting*

Dale H. Porter (Western Michigan University): *Kinship, Patronage, and Professionalism Among Civil Engineers in Victorian London*

Bryan Pfaffenberger (University of Virginia): *The Social Construction of the Personal Computer*

Comment: Peter Meiksins (State University of New York, Geneseo)

### Water Quality and Municipal Engineering

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

Organizer and chair:

Joel A. Tarr (Carnegie-Mellon University)

Christopher Hamlin (University of Notre Dame): *Taking the Big Step: Engineers and Municipal Sanitary Initiative in Nineteenth-Century British Towns*

Dennis J. Sebian (Boston Department of Water and Sewage): *The Quest for Pure Drinking Water in the Progressive Period: The Role of the Consulting Engineer*

William F. Steirer, Jr. (Clemson University): *Laws and Policies Affecting Water Quality and Municipal Engineers in South Carolina, 1950-1975*

Comment: Todd Shallat (Boise State University)

Jeffrey K. Stine (independent historical consultant)

### SHOT Executive Council Meeting

11:30 a.m. - 1:00 p.m.

## Archives

The **Archives of American Mathematics** announces that its collections are open for use on an appointment basis. The Archives serves as a national repository for papers of mathematicians and records of mathematical organizations for which appropriate local preservation is not available. Initiated in 1975 with the preservation of the papers of University of Texas topologist Robert Lee Moore, the Archives is administered by the University Archives of the University of Texas and is the official archival repository of the Mathematical Association of America. The collections, now comprising over 450 linear feet, include the records of the School Mathematics Study Group and the papers of over twenty mathematicians. Most strongly represented are individuals and organizations active after 1920. A complete descriptive list of the collections is available on request. An index of biographical information and portraits is being prepared. For further information contact Frederic F. Burchsted, Archivist, Archives of American Mathematics, University Archives, SRH 2.109, University of Texas, Austin, TX 78713; telephone (512) 471-3051 (Collections Deposit Library). Major collections include records or papers of Max Dehn (1878-1952); Joseph Hyman Ettlinger (1889-1986); Mathemat-

ical Association of America (1915-; 100 feet); Robert Lee Moore (1882-1974); Charles Bradfield Morrey, Jr. (1907-1984); New Mathematical Library (1957-1976); George Yuri Rainich (1886-1968); William Thomas Reid (1907-1977); Alfred Schild (1921-1977); School Mathematics Study Group (1958-1977; the major force of the "new math" movement); Norman Earl Steenrod (1910-1971); Jean Van Heijenoort (1912-1986; records of the preparation of *From Frege to Gödel: A Sourcebook in Mathematical Logic, 1879-1931*); Harry Schultz Vandiver (1882-1973); and William Marvin Whyburn (1901-1972).

The **Courtland County Historical Society** holds photographic, print, and archival collections in business and technological history that are available to scholars and researchers. Three main subjects are covered in these archives: the products and operations of Brockway Truck from 1912 through 1977 (nearly seven thousand photographic negatives and prints of vehicle bodies); the Wickwire manufactures of nails, wire, and hardware cloth from 1881 through 1971; and the invention and production of well drilling equipment by James Suggett in the last quarter of the nineteenth century. For more information contact Rachel Savage or Mary Ann Kane, Suggett House Museum, 25 Homer Avenue, Cortland, NY 13045.

The **Hagley Museum and Library** has recently opened the records of the IBM Anti-Trust Suit (1969-1982) for research. The archive includes trial transcripts, depositions, and exhibits that were entered in evidence. For further information contact Manuscripts and Archives Department, Hagley Museum and Library, P.O. Box 3630, Wilmington, DE 19807; telephone (302) 568-2400, ext. 330.

The **Massachusetts Eye and Ear Infirmary**, begun in 1824, has recently opened its special collections to researchers. The Abraham Pollen Archives and Rare Book Library houses 225 cubic feet of archives and manuscripts, about 1,500 rare books, and more than 1,000 medical instruments, all relating to the medical specialties of ophthalmology and otolaryngology. For more information contact Joan K. Haas, Pollen Archives and Rare Books Library, Massachusetts Eye and Ear Infirmary, 243 Charles Street, Boston, MA 02114.

The **Francis O. Schmitt Oral History of Neuroscience Collection**, sponsored by the Acadia Institute, is now available to scholars at MIT, by application to Helen Samuels, Archivist, Institute Archives and Special Collections, Room 14N-118, Massachusetts Institute of Technology, Cambridge, MA 02139; telephone (617) 253-5688.

## SUMMER EVENTS 1988

An **international summer school in history of science** has been set up to meet annually for two weeks during the summer, in Bologna, Uppsala, and Berkeley in rotation. The school's purpose is to bring together specialists and advanced aspirants to consider topics in history of science and technology deemed interesting, timely, and appropriate to the location. Each school will have two sessions of one week each, and each session will take up two or three topics. Lectures will occupy the mornings; afternoons will be free for work in libraries, museums, laboratories, and ad hoc seminars. The first school, devoted to eighteenth-century science, will be held in Bologna from 29 August to 9 September 1988, in connection with celebrations of the 900th anniversary of the University of Bologna. Lecturers and

their topics are Paolo Galluzzi (Florence), on the historical consciousness of eighteenth-century scientists; Tore Frängsmyr (Uppsala) and J. L. Heilbron (Berkeley), on the quantitative spirit of the late Enlightenment; F. L. Holmes (Yale), on chemical investigation in the eighteenth century; and Inge Jonsson (Stockholm) on pseudosciences during the Enlightenment.

Free room and board will be available to a small number of participants. For application forms and further information write any one of the organizers: Tore Frängsmyr, Office for History of Science, Uppsala University, Box 256, S 751 05 Uppsala, Sweden; J. L. Heilbron, Office for History of Science and Technology, University of California, 470 Stephens Hall, Berkeley, CA 94720; Giuliano Pan-

caldi, Università degli Studi di Bologna, Dipartimento di Filosofia, Via Zamboni, 38, 40126 Bologna, Italy.

The Institute for Advanced Studies in the Humanities of the University of Edinburgh announces two events for the summer of 1988. **TeCH 88**, a project on Technology Communication and the Humanities, will take place from April to September 1988. In addition a **Conference on Technology, Communication, and the Humanities** will be held 18-21 August 1988, addressing the themes of technology and decision making, technology and the dissemination of information, technology and the acquisition of knowledge, technology and creative design, and technology and daily life. For more information contact the Director, Institute for Advanced Studies in the Humanities, Hope Park Square, Edinburgh EH8 9NW Scotland.

## POSITIONS

The Committee on History and Philosophy of Science at the **University of California, Davis**, seeks a philosopher or historian of science, at the associate or full professor level (tenured), with a national reputation, to develop and head a new unit in the College of Letters and Science. Applicants are expected to provide evidence of a vigorous research program and significant accomplishments in an area of science studies as well as of ability to teach history or philosophy of science or both at graduate and undergraduate levels. The successful candidate will be expected to continue his or her research program, complement existing faculty in teaching duties, and be willing to serve in leadership and administrative roles, including development of the program and planning for additional recruitment. Those desiring further information about Davis or the Interdepartmental Program in History and Philosophy of

Science should write or call James R. Griesemer, Chair, Committee on History and Philosophy of Science, Department of Philosophy, University of California, Davis, CA 95616; telephone (916) 752-1068 or 752-0607. Complete dossiers should be sent, including a vita, list of three references, and offprints of recent work. Applications will be considered until the position is filled, but not later than **1 December 1987**. AA/EOE

The Department of History at the **University of Florida** announces a new tenure-track assistant professor position in history of science to begin in the fall of 1988. Areas of competence and specialization are open. Teaching responsibilities will include courses at the introductory and graduate levels. Salary is fully competitive and dependent on qualifications. Applicants should have completed the Ph.D. by the spring of 1988. Send letter of application, resume, and three letters of reference to Frederick Gregory, Department of History, 4131 TUR, University of Florida, Gainesville, FL 32611. Applica-

tions must be received by **15 October 1987**. AA/EOE

The Department of the History of Science at **Harvard University** announces two openings for assistant or associate professors with a minimum appointment of three years. Those hired will be responsible for teaching undergraduate and graduate courses and will participate in the History and Science undergraduate concentration program (small group and individual student teaching, as well as shared responsibility for administering the program). Any field of interest within the history of science, medicine, or technology will be considered. The department plans to fill one position with an historian of early modern science. Candidates should have completed the Ph.D. degree by 1 July 1988, the effective date of the appointment. Application deadline is **1 October 1987**. Applications and a dossier including three letters of recommendation and appropriate written or published material should be sent to Everett Mendelsohn, Chair, Search Committee,

## FELLOWSHIPS & GRANTS

The **Center for History of Physics of the American Institute of Physics** has a program of small grants-in-aid for research in the history of nineteenth- and twentieth-century physics and allied sciences, such as astronomy, geophysics, and optics, and their social interactions. Grants will be for a maximum of \$1,000 each and will be used only to reimburse direct expenses connected with work in these fields. Preference will be given to those who need part of the funds for travel to use the resources of the Center's Niels Bohr Library in New York City, or to microfilm papers or to tape-record oral history interviews and deposit a copy in the Library, but other projects will also be considered. To apply send a vita, a letter of no more than two pages describing your research project, and a brief budget showing the expenses for which support is requested to Spencer Weart, Center for History of Physics, American Institute of Physics, 335 East 45th Street, New York, NY 10017. Deadlines for receipt of applications are **30 June** and **31 December** of each year.

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 1988-1989. The appointment carries with it the expectation of renewal for a second year. Fellows newly appointed for 1988-1989 must have received the Ph.D. between 1 January 1985 and 1 July 1988. The stipend will be \$27,500, one half for independent research and one half for teaching in the undergraduate program in general education. Additional funds are available to support research. Application forms can be obtained by writing to the Directory, 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 1987**. AA/EOE

The **Committee on Scholarly Communication with the People's Republic of**

**China** is pleased to announce a National Program for Scholarly Exchanges with the People's Republic of China for the 1988-1989 academic year. The Graduate and Research Programs offer opportunities to graduate students and scholars in social sciences and humanities to conduct long-term research in China. The Visiting Scholar Exchange Program is a reciprocal, short-term program that offers opportunities to Americans in natural sciences, engineering, social sciences, and humanities to lecture and conduct research in China, and invites nominations of Chinese scholars to come to the United States. The application deadline is **10 October 1987**. For applications write CSCPRC, National Academy of Sciences, 2101 Constitution Avenue, NW, Washington, DC 20418; telephone (202) 334-2718.

Opportunities for American colleges and universities to host a visiting scholar from abroad for all or part of the 1988-1989 academic year are available through the **Fulbright Scholar-in-Residence Program**. Institutions are invited to submit proposals for visiting scholars in the humani-

Department of the History of Science, Science Center 236, Harvard University, Cambridge, MA 02138. AA/EOE

The **Louis Jeantet Foundation for Medicine** is searching for a candidate for a position of full professor of history of medicine at the Faculty of Medicine of Geneva University. In order to propose officially a candidate for this position, the Foundation invites interested persons to submit, under strict confidence, their dossier, which should include a curriculum vitae, a list of publications and research projects. Send to the Secretary of the Science Committee, the Louis Jeantet Foundation for Medicine, Box 140, CH-1211 Geneva, 17 Malagnou, Switzerland. The deadline is **31 October 1987**.

The **National Aeronautics and Space Administration (NASA) History Office** invites proposals from qualified scholars to research and write a history of NASA's Deep Space Network (DSN). An outgrowth of missile technology of the 1950s, the Deep Space Network has enabled NASA to communicate with spacecraft at

vast interplanetary distances through a single network adaptable to a variety of space missions. At the same time, the DSN has been an important vehicle for technological innovations and scientific research. NASA is prepared to support three years full-time work, beginning in 1988, to research and write a publishable book-length history of the DSN. Proposers should have an earned doctorate in the history of science and technology, or a research area providing comparable preparation for a study of this kind. Publication experience is preferred. For guidelines in the preparation of proposals and evaluation criteria, please consult "History at NASA," which may be obtained from the History Office, National Aeronautics and Space Administration, Washington, DC 20546; telephone (202) 453-8300. Deadline for proposals is **1 October 1987**.

The Department of History of Science at the **University of Wisconsin-Madison** announces a probable tenure-track appointment, beginning August 1988, at the assistant professor level, unless current

rank and experience require appointment at a higher level. The area of specialization is history of the life sciences, and applicants with completed Ph.D.s are strongly preferred. The successful candidate will be expected to develop a significant program of teaching and research. Inquiries and applications should be directed to David Lindberg, Chairman, Department of History of Science, 4143 Helen White Hall, University of Wisconsin, Madison, WI 53706; telephone (608) 262-1406/3971. Applications should contain (1) a curriculum vitae, (2) a statement of research and teaching plans and interests, (3) at least three letters of recommendation, and (4) a copy of undergraduate and graduate transcripts. Course syllabi (actual or proposed) and sample publications or examples of written work would also be useful. The application deadline is **15 November 1987**. Early application is encouraged, however, so that interviews can be arranged during the annual meeting of the History of Science Society in Raleigh, 29 October-1 November 1987. AA/EOE

ties and social sciences, or in scientific or professional specializations with a strong international focus. Of particular interest for the 1988-1989 program year will be proposals to bring scholars in American literature, history, or politics; professionals from the media or government; or specialists in constitutional law or politics to celebrate the Bicentennial of the U.S. Constitution. Deadline for receipt of proposals is **1 November 1987**. Detailed program guidelines and proposal forms can be requested from the Council for International Exchange of Scholars, Eleven Dupont Circle NW, Suite 300, Washington, DC 20036-1257; telephone (202) 939-5401.

The Council for International Exchange of Scholars reminds faculty and scholars that the competition for the 1988-1989 **Fulbright Grants** is in progress. See the April *Newsletter*, page 7, for further details.

**Harvard University** announces the availability of **Andrew W. Mellon Faculty Fellowships in the Humanities** for nontenured, experienced junior scholars who have completed, at the time of appoint-

ment, at least two years of postdoctoral teaching as college or university faculty members in the humanities, usually as assistant professors. Special consideration will be given to candidates who have not recently had access to the resources of a major research university. Ph.D. required, to be received prior to 30 June 1986. The appointment will last from July 1988 to July 1989, with a salary of \$27,000, and will offer limited teaching duties, departmental affiliation, and opportunity to develop scholarly research. Applications are due **2 November 1987**. Awards will be announced 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.

The **Institute for Advanced Study: School of Historical Studies** announces fellowships for research in the history, thought, and culture of the Western world. The Ph.D. (or equivalent) and publications are required. Qualified candidates of any nationality may apply for one or two terms. Some travel funds are available.

Applications for 1988-1989 are due before **15 October 1987**. For further details, write the Administrative Officer, School of Historical Studies, Institute for Advanced Study, Olden Lane, Princeton, NJ 08540.

**Stanford University** announces the availability of **Andrew W. Mellon Postdoctoral Fellowships in the Humanities** at Stanford. To be awarded to highly promising scholar-teachers in the humanities, these nonfaculty one-year positions will 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 1983 and before September 1988. The award carries an annual stipend of \$22,000 plus benefits. The fellowship is renewable for a second year. Application forms for 1988-1989 are available in July 1987. All materials, including three letters of reference, are due no later than **15 November 1987**. Applicants will be notified of the outcome in late February 1988. For more information write Mellon Postdoctoral Fellowships, Dean's Office, Humanities and Sciences, Building One, Stanford University, Stanford CA 94305.

## CALLS FOR PAPERS

A call for papers has been issued for a conference on **Boscovich in Rome, 1725-1759: His Scientific Life and Works**. The conference, to be held in Rome in April 1988, is being organized by the Istituto della Enciclopedia Italiana in conjunction with other Roman institutions and academies, and will emphasize Boscovich's work in matter theory, natural philosophy, mathematics (including foundations and pedagogy), geodesy, engineering, architecture, and archeology. Those interested in attending the conference and those who might be interested in offering papers should contact either G. E. Viola, Istituto della Enciclopedia Italiana, Piazza Paganica 4, Rome 00186, Italy, or Piers Bursill-Hall, Department of Pure Mathematics, 16 Mill Lane, Cambridge, England CB2 1SB. The latter should be contacted as soon as possible by anyone interested in offering a paper.

**Interdisciplinary Nineteenth-Century Studies (INCS)** will hold its third annual meeting, hosted by Northeastern University, in Boston, 14-16 April 1988. The

general theme of the meeting is "Transport, Transition, and Rites of Passage." Papers addressing this theme or any other aspect of interdisciplinary nineteenth-century studies are welcome. The due date for first-draft papers or proposals (papers preferred) is **15 November 1987**. Decisions will be announced by 15 December 1987. Final drafts, configured so as to permit binding and in sufficient quantity to allow for distribution, will be due by 15 February 1988. For further information, contact the Head of the Program Committee: Stuart Peterfreund, Department of English—406HO, Northeastern University, 360 Huntington Avenue, Boston, MA 02115. INCS is a new organization that looks at relationships between such disciplines as the history of science and literature, and the history of technology and urban studies.

Papers are invited for the Seventeenth Annual Meeting of the **International Society for the Comparative Study of Civilization**, to be held 27-30 May 1988, at Hampton University, Hampton, Virginia. Among the themes anticipated are The Discovery and Colonization of the Americas, and Translation Across Civilizations.

## RESEARCH PROJECT

Allen G. Debus, University of Chicago, and Hosam Elkhadem, Centre National d'Histoire des Sciences—Brussels, are preparing an annotated translation of the Arabic Paracelsian text by Şalîh ibn Naşr Allâh ibn Sallûm (c. 1640), the *Gāyat al-itqân fi tadbîr badan al-isân*. The fourth section of this work is titled "The New Chemical Medicine Invented by Paracelsus."

Abstracts and inquiries should be sent to Matthew Melko, 1988 ISCS Program Chair, Department of Sociology and Anthropology, Wright State University, Dayton, OH 45435.

Victorian Belief and Unbelief will be the topic of the twelfth annual meeting of the **Midwest Victorian Studies Association**, to be held at Indiana University, Bloomington, 29-30 April 1988. The Association welcomes proposals dealing with established religion and the challenges or alternatives to it; sacred music, art, and architecture; and the general nature of spiritual and moral commitment in Victorian Britain. Eight- to ten-

## MEETINGS

In honor of the bicentenary of the death of Ruggero Boscovich, the Osservatorio Astronomico di Brera has organized a **Bicentennial Commemoration of R. Boscovich**, to be held in Milan, Italy, 15-18 September 1987. For more information write the Boscovich Bicentennial Commemoration Organizing Committee, Osservatorio Astronomico di Brera, Via Brera 28, I-20121 Milano, Italy.

Five major scientific and technical information producers—BIOSIS; Engineering Information, Inc.; IFI/Plenum Data Co.; the Institute for Scientific Information; and PsycINFO—will cosponsor **Database Expo**, a day-long product update, in conjunction with the Online '87 conference in Anaheim, California, 19 October 1987, at the Disneyland Hotel. In addition to introducing the newest scientific and technical bibliographic resources available, the update will be a forum for discussing cost-effective searching techniques, vendor differences, and the unique

applications of and relationships between selected databases. The fee for the day-long Database Expo is \$25; it includes lunch and all activities. For more information or to register, call Engineering Information, Inc., at 1-800-221-1044.

The Canadian Science and Technology Historical Association will sponsor the fifth **Kingston Conference**, on Canada's scientific and technical heritage, on 23-25 October 1987 at the Chino Inn in Ottawa. Sessions will be devoted to the emergence of scientific disciplines, history of public works, agriculture, industrial archaeology, science and engineering policy, public health, and science and technology museums. For more information contact the secretary-treasurer, Richard A. Jarrell, Department of Natural Science, Atkinson College, York University, North York, Ontario M3J 1P3, Canada.

The **Pasteur Institute** is organizing an international colloquium on its history to be held in Paris, 7-10 June 1988, as part of the scientific, historical, and cultural

activities marking the centennial of the foundation of the Institute. The scientific committee of the colloquium includes F. Jacob (president), F. Dagognet, G. Duby, M. Grmek, A. Lwoff, and E. Wolman. The colloquium will deal with various aspects of the history of the Pasteur Institute and will stress both the scientific and the institutional aspects of its development. Communications will be given in French and in English. A nonexhaustive list of session topics follows: the work of Louis Pasteur—contemporary evaluations; the Pasteur Institute as a model research institution; the relationship between the Pasteur Institute and the pharmaceutical industry, the medical schools, and the universities; the history of microbiology, immunology, biochemistry, and chemotherapy at the Pasteur Institute; the French school of molecular biology. Talks will be given, among others, by F. Dagognet, M. Grmek, G. Geison, J. Leonard, R. E. Kohler, R. Olby, H. W. Paul, C. Salomon-Bayet, and J. Theodorides. For further information and registration, contact Michel Morange, IBM, Batiment

page papers or two-page abstracts should be sent no later than **5 November 1987** to Kristine Ottesen Garrigan, MVSA Executive Secretary, Department of English, DePaul University, 802 West Belden, Chicago, IL 60614.

Papers and panel proposals are invited for the 31st Annual **Missouri Valley History Conference**, Omaha, Nebraska, 10-12 May 1988. Proposals, containing an abstract and a brief vita of all participants, should be sent by **15 November 1987** to Michael L. Tate, Program Coordinator, 1988 MVHC, Department of History, University of Nebraska at Omaha, Omaha, Nebraska, 68182.

The program committee of the **National Council on Public History** requests proposals for sessions at its annual meeting in Denver, Colorado, 3-6 March 1988, on the theme *Our Nation's Heritage: Preserving and Interpreting America's Past*. Proposals for complete sessions should be submitted by **10 September 1987**. The committee will also have a meeting room available, holding up to twenty persons, for ad hoc meetings, presentations, and so forth. Deadline for scheduling the ad hoc

Jacques Monod, Institut Pasteur, 25 rue du Dr. Roux, 75015 Paris, France; telephone 4568-8000, extension 7342.

The **Second Latin American Congress of the History of Science and Technology** will take place in São Paulo, Brazil, 30 June to 4 July 1988. Those interested in receiving the second announcement of the meeting should send a letter of inquiry to the Comissão Organizadora, 2.0 CLAHCT Caixa Postal 6063, 13.081 Campinas, SP, Brazil.

The **Thirty-First International Congress on the History of Medicine** will be held at the University of Bologna, Italy, 30 August to 4 September 1988, on the occasion of the ninth centenary of the University of Bologna and of the seven hundredth anniversary of the Faculty of Medicine. The first circular has already appeared, asking that those wishing to attend write expressing their interest by 30 June 1987. For further information contact the Organizing Secretariat, Conference Service srl, Via Tagliapietre 18/b, 40123 Bologna, Italy.

meeting room is **15 November 1987**. Send proposals to Brit Storey, Co-chair Program Committee, National Council on Public History, 7264 West Otero Avenue, Littleton, Colorado 80123.

#### PUBLICATIONS

**POLYGONON: A Journal for Interdisciplinary Issues and Methods**, is planning to begin publication during the summer of 1987, under the auspices of the Faculty of Law of Tel Aviv University. In its first issues *POLYGONON* will be concerned primarily with the following subjects: the problem of interdisciplinary thought; hermeneutics; epistemology as a natural science; paradigms and research traditions in science; structuralism; psychoanalysis: growth or decline; and the impact of the computer on science, philosophy, and the arts. Authors should

submit articles in triplicate, typed double-spaced. Editorial inquiries, articles, suggestions for book reviews, and news about academic events should be sent to Asher Idan, *POLYGONON*, Faculty of Law, Tel Aviv University, Ramat-Aviv 69978, Israel.

Twayne Publishers, a division of G. K. Hall & Co., Boston, announces **Twayne's History of Science and Society Series**, edited by Thomas Goldstein, professor emeritus at the City College of New York. The books are 200-225-page introductions to the central developments and key issues in the field for students and general readers. The series will include subjects such as science and ethics, science and the sexes; the history of astronomy, and the history of geography. Address suggestions for volumes to Thomas Goldstein, c/o A. Dallet, Twayne Publishers, 70 Lincoln Street, Boston, MA 02111.

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#### XVIII INTERNATIONAL CONGRESS OF THE HISTORY OF SCIENCE, 1989

The **XVIII International Congress of the History of Science** is scheduled for 1-9 August 1989, starting in Hamburg and then moving to Munich. The general theme of the Congress will be *Science and Political Order (Wissenschaft und Staat)*. This theme is to comprise all facets of the relations between science (including technology and medicine) and the numerous forms of political order, from the various philosophies about society and state to the actual realizations they have found in past and present in all parts of the world. The theme should also direct attention to the response of science to the political order: response in the form of organization and management of science; in the choice of research topics; in the ways in which science, medicine, and technology have been applied to meet the needs of the state in peace time and in war; and the actions these disciplines have taken at various times to bring their interests to bear on state and government. Last but not least, the responsibility of science and the scientist towards the state, and in regard to the various forms of political activities under which science is undertaken in daily research, teaching, and planning, should be topics of reflection and discussion at this Congress.

As usual, the Congress will consist of symposia, which will address themes of special interest, and scientific sections devoted to the various branches and peri-

ods of the history of science and technology. As a new departure, we propose to introduce poster sessions. Colleagues making use of this facility will be allocated space on a poster board, and one morning or afternoon session will be reserved for discussion. During this period they may be contacted by other Congress participants, explain their research projects, and discuss in an informal way problems and results of their work.

Chairman of the National Program Committee is Fritz Krafft (Fachbereich Mathematik, Staudinger Weg 9, D-6500 Mainz, Federal Republic of Germany). Chairman of the Organizing Committee is Christoph J. Scriba (Institut für Geschichte der Naturwissenschaften, Bundesstrasse 55, D-2000 Hamburg 13, FRG). Chairpersons of the various commissions and committees of the Division of History of Science of the International Union for the History and Philosophy of Science (IUHPS/DHS) who are interested in organizing special symposia are invited to contact Professor Krafft in the near future.

The first detailed circular will be distributed by the National Committees of the IUHPS/DHS, or may be requested from Professor Scriba (address above). This circular should be ready for distribution in late summer 1987. The second circular will be mailed to all colleagues who express interest in further information by returning the entry form.

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## Prize Competitions

The American Association for the Advancement of Science calls for nominees for the **1988 AAAS Scientific Freedom and Responsibility Award**. Established in 1980, the \$1,000 prize is awarded annually to honor scientists and engineers whose exemplary actions, often taken at significant personal cost, have served to foster scientific freedom and responsibility. The AAAS prize recognizes scientists and engineers who have acted to protect the public's health, safety, or welfare; focused public attention on important potential impacts of science and technology on society by their responsible participation in public policy debates; or established important new precedents in carrying out the social responsibilities or in defending the professional freedom of scientists and engineers. Nomination forms and directions for nomination are available from Scientific Freedom and Responsibility Award, American Association for the Advancement of Science, 1333 H Street, NW, Room 1101, Washington, DC 20005. Deadline for receipt of entries is **31 August 1987**.

Nominations are invited for the **AAAS-Westinghouse Award for Public Understanding of Science and Technology**. This is a new annual award for working scientists and engineers from all disciplines who make outstanding contributions to public understanding of science and technology and are not members of the media. The first award will be presented during the AAAS Annual Meeting in Boston, 11-15 February 1988. The award carries a \$2,500 prize. The deadline for nominations is **15 October 1987**. For more information contact Patricia S. Curlin, AAAS Committee on Public Understanding of Science and Technology, 1333 H Street NW, Washington, DC 20005; telephone (202) 326-6600.

The Society for the History of Alchemy and Chemistry, with the kind permission of the family of the late James Riddick Partington, the Society's first chairman, has established the **Partington Prize**, awarded every three years for an original and unpublished essay on any aspect of the history of alchemy or chemistry. The prize consists of £100. The competition is open to anyone with a scholarly interest in the history of alchemy or chemistry who shall not have reached thirty years of

age by the closing date, **31 December 1987**. Scholars from any country may enter the competition, but essays must be submitted in English, typewritten and double-spaced on one side of the paper. Essays should not exceed 5,000 words in length and must be fully documented following the conventions used in recent issues of *Ambix*. The prize-winning essay will be considered for publication in *Ambix*, but publication cannot be guaranteed. All entries should be sent to the Hon. Secretary of the Society, G. K. Roberts, Faculty of Arts, The Open University, Milton Keynes, MK7 6AA, England, with the words "Partington Prize" clearly written on the envelope. Each entry should contain a separate title-page giving the author's name, institution, address, and date of birth; this will not be made available to the judges. Essays (only one from each competitor) must be received no later than **31 December 1987**. The name of the winner will be announced by 30 April 1988, and all essays will be returned to competitors soon after that date.

The **Joan Cahalin Robinson Prize** encourages the efforts of young and new scholars in the history of technology by rewarding excellence in verbal communications

## Awards, Honors & Appointments

The **American Institute of the History of Pharmacy** has announced the names of three recipients of grants-in-aid toward thesis expenses related to the history of pharmacy. They are **Paula Findlen** of the University of California at Berkeley, to complete work on her thesis "*Varietas Delectat*: Natural History Museums in Early Modern Italy (1550-1750)"; **Michael Harris** of the Smithsonian Institution, for his thesis work at the University of Wisconsin on "Homeopathic Drug Dosage Forms in Nineteenth-Century America"; and **Jole Shackelford** of the University of Wisconsin for his thesis on "Paracelsian Medical Thought in the Sixteenth- and Seventeenth-Century Kingdoms of Denmark and Norway." The total awarded is \$5,000.

The following students have been awarded **NSF Graduate Fellowships** for three years, beginning in fall 1987, to study the history or philosophy of science: Mark Barrow (University of Florida, to study at Harvard University); Ira Bashkow (Harvard University, to study at the University of Chicago); Richard Beyler (Goshen College, to study at Harvard University); Amy Bix (Princeton University, to study at Johns Hopkins); Elizabeth Comerford (Manhattan College, to study at Johns Hopkins); Mitchell Elkind (Harvard University, to study at Cambridge University); T. J. Ellermeier (Harvard University, to remain there); Heather Fowles (University of Chicago, to study there); Gabrielle Hecht (MIT, to study at the University of Pennsylvania); Robert Hovis (Wake Forest University, to study at Harvard); Alex Pang (University of Pennsylvania, to study there); Laura Reutsche (Carleton College, to study at the University of Pittsburgh); and Roald Severtson (University of Puget

Sound, to study at the University of Chicago).

The title Distinguished Professor has been conferred by the State University of New York on **Vern L. Bullough**, Dean of the Faculty of Natural and Social Sciences at Buffalo State College. He is the third person in the history of Buffalo State to become a SUNY Distinguished Professor.

**Robert Garisto** has won the Prize for Excellence in Science from the University of Chicago chapter of Sigma Xi for a paper pointing out an error in Newton's *Principia*, Book III, Proposition 8. The paper was first submitted in a course taught at Chicago by Noel Swerdlow.

**Richard Kremer** has been appointed Assistant Professor in the Department of History at Dartmouth College beginning July 1987.

skills. It is awarded for the *best presented* paper at the annual meeting of the Society for the History of Technology. Eligibility is restricted to those who are not yet thirty years old by the last day of the meeting in Raleigh (1 November 1987), and those over thirty who are presenting their first paper at a SHOT meeting and are accredited graduate students or candidates for a higher degree. Presenters holding a Ph.D. are not eligible unless they are under thirty. Candidates for the prize must submit written papers, complete with footnotes, to the Prize Committee one month before the annual meeting. Written papers should be limited in scope to what can be reasonably presented in the time allotted for oral presentation. The Committee decision rests on the quality of historical research and scholarship, the clarity of organization and coherence of argument, audibility and interest of voice, relevance and clarity of any visual or auditory materials used, rapport with the audience, ability to deal politely and informatively with questions, and adherence to the limits set in advance by the chair of the session. The Robinson prize consists of a certificate and a check for \$250. To be eligible for the prize, presenters must send a copy of the paper to

each member of the Prize Committee by **29 September 1987**. For further information, including the names and addresses of the members of the committee, contact Richard Hirsh, Committee Chairman, Department of History, Virginia Polytechnic Institute, Blacksburg, VA 24061; telephone (703) 961-5331.

#### EXHIBIT

The **American Philosophical Society (APS)** will mark the Constitutional Bicentennial with an exhibit "Designing a Nation: Science, Technology, and the Constitution," on display at 427 Chestnut Street in Philadelphia. Rare books and manuscripts, maps, watercolor sketches, scientific instruments, and models of inventions from the APS's collections highlight the role of science and technology in developing the resources of the new nation during 1787 to 1830. "Designing a Nation" is open Monday through Friday, 10:00 a.m. to 4:00 p.m., and continues through September 1987. For further information, contact the exhibition's curator, Dr. David Rhees, American Philosophical Society Library, 105 South Fifth Street, Philadelphia, PA, 19106; (215) 627-0706.

**Alexander M. Ospovat**, Professor of History at Oklahoma State University, has been awarded the Abraham Gottlob Werner Medal for his scholarly contributions over a period of three decades to historical understanding of Alfred Werner's role in the development of geology and of the sciences in Germany. The medal was awarded to Dr. Ospovat by the Gesellschaft für Geologische Wissenschaften of the German Democratic Republic. On behalf of the East German Society for Geological Sciences, Martin Guntau of the Wilhelm-Pieck University of Rostock presented the medal to Professor Ospovat in Stillwater, Oklahoma, on 1 April.

**John M. Riddle** of North Carolina State University has been named the 1987 recipient of the Urdang Medal of the American Institute of the History of Pharmacy in recognition of his recent book, *Dioscorides on Pharmacy and Medicine* (University of Texas Press, 1985). The

AIHP's George Urdang Medal is awarded for an original and scholarly publication pertaining primarily to historical or historico-social aspects of pharmacy.

**G. S. Rousseau** of UCLA has won the Clifford Prize for "The Pursuit of Homosexuality in the Eighteenth Century: 'Utterly Confused Category' and/or Rich Repository?" which appeared in *Eighteenth-Century Life*, 1985, 9(3):132-168. Rousseau, author of numerous works on literature and science, is currently finishing a book with Roy Porter called *Sexual Underworlds of the Enlightenment*, soon to be published by Manchester University Press.

**Margaret Schabas** has been appointed assistant professor of the history of science at the University of Wisconsin beginning August 1988. She will spend 1987-1988 as a Mellon Faculty Fellow at Harvard University.

## Books Available

Two important recent Russian publications in the history of biology are now available in English translations:

L. I. Blacher [Blyakher], *The Problem of the Inheritance of Acquired Characters*, English translation by F. B. Churchill (Moscow, 1971; Washington, 1982), 267 pp.

L. I. Blacher [Blyakher], *The History of Embryology in Russia* (Moscow, 1955; Washington, 1982), 673 pp. Both volumes were originally published in Moscow by the USSR Academy of Science. The two volumes can be obtained from Ernst Mayr (courtesy of the Smithsonian Institution), free of charge except for a prepaid fee of \$2.00 (within the U.S.; one volume only: \$1.00) or \$2.50 (foreign; one volume only: \$1.75), for packing and postage. First come, first served. Write Ernst Mayr, Museum of Comparative Zoology, Harvard University, Cambridge, MA 02138, USA.

The National Library of Medicine will display its exhibit "The New Age of Health Laboratories, 1885-1915," between 15 May and mid October 1987. The exhibit marks the joint centennial of NIH and of the Pasteur Institute. Copies of an illustrated brochure with the same title are available without cost from the Chief, History of Medicine Division, National Library of Medicine, Bethesda, MD 20894.

An apparently complete run of *Isis* from 1957 through the present, including all special issues, is available for sale as a unit. Will deliver within 300 miles of Boston. Contact Thomas G. Kudzma, Box 1412, Nashua, NH 03060 with offer. Set is as issued and in like-new condition.

#### ERRATUM

In a letter of 21 April 1987, Robert D. Sard, Professor Emeritus of Physics at the University of Illinois, writes, "The April 1987 issue of the *Newsletter* contains a serious though innocent error. The caption for the half-tone on page 14 identifies Carl D. Anderson (the discoverer of the positron) as Philip Anderson, who was either not yet born or still a child when the picture was taken." Our thanks also to several others who called this error to our attention, including L.W. Alvarez, Daniel J. Kevles, and Eleanor Anderson Maass.

## Books Received by Isis March-May 1987

**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 fill in the coupon "News of Forthcoming Books" in this section.

**G. C. Ainsworth.** *Introduction to the History of Medical and Veterinary Mycology.* xi + 228 pp., illus., bibl., indexes. Cambridge/London/New York: Cambridge University Press, 1986. \$49.50.

**Brian W. Aldiss.** *Trillion Year Spree: The History of Science Fiction.* With the assistance of David Wingrove. 511 pp., illus., bibl., index. New York: Atheneum, 1986. \$24.95.

**Luiz W. Alvarez.** *Alvarez: Adventures of a Physicist.* (The Alfred P. Sloan Foundation Series.) xii + 292 pp., illus., index. New York: Basic Books, 1987. \$19.95.

**Frederick Amrine; Francis J. Zucker; Harvey Wheeler** (Editors). *Goethe and the Sciences: A Reappraisal.* (Boston Studies in the Philosophy of Science, 97.) xvii + 442 pp., bibl., index. Dordrecht/Boston/Lancaster: D. Reidel, 1987. (Distributed in the U.S. and Canada by Kluwer Academic Publishers, Norwell, Mass.) Dfl 190, \$79, £56.75.

**Agnes Arber.** *Herbals, Their Origin and Evolution: A Chapter in the History of Botany, 1470-1670.* Introduction by William T. Stearn. (Cambridge Science Classics.) xxxii + 358 pp., illus., index. Third edition. Cambridge/London/New York: Cambridge University Press, 1912; 1986. \$24.95 (paper).

**William B. Ashworth; Bruce Bradley.** *Jesuit Science in the Age of Galileo: An Exhibition of Rare Books from the History of Science Collection, March 24-July 31, 1986.* 32 pp., illus., index. Kansas City, Mo.: Linda Hall Library, 1986.

**Isaac Asimov.** *Past, Present and Future.* 374 pp. Buffalo, N.Y.: Prometheus Books, 1987. \$19.95.

**Francisco Ayala.** *Usurpers.* Translated by Carolyn Richmond. xiii + 178 pp. New York: Schocken Books, 1987. \$15.95.

**Richard J. Badham.** *Theories of Industrial Society.* 188 pp., bibl., index. New York: St. Martin's Press, 1986. \$27.50.

✓ **Karl Ernst von Baer.** *Autobiography of Dr. Karl Ernst von Baer.* Edited by Jane M. Oppenheimer. (Resources in Medical History.) xiii + 389 pp., indexes. Braunschweig: Vieweg, 1886 (in German); Canton, Mass.: Science History Publications/USA, 1986. \$25.

**David P. Barash.** *The Hare and the Tortoise: Culture, Biology, and Human Nature.* 351 pp., index. New York: Penguin Books, 1987. \$7.95 (paper).

**Paul H. Barrett; Donald J. Weinshank; Paul Ruhlen; Stephan J. Ozminski; Barbara N. Berghage** (Editors). *A Concordance to Darwin's The Expression of the Emotions in Man and Animals.* ix + 515 pp., apps. Ithaca, N.Y./London: Cornell University Press, 1986. \$45.

**Ronald Bayer; Daniel M. Fox; David P. Willis** (Guest Editors). *AIDS: The Public Context of an Epidemic.* (The Milbank Quarterly, Volume 64, Supplement 1.) 182 pp. New York: Milbank Memorial Fund, 1986. \$3 (paper).

**Leo Beek.** *Dutch Pioneers of Science.* 183 pp., illus., bibl., index. Assen: Van Gorcum, 1985. (Distributed in the U.S. and Canada by Longwood Publishing Group, Wolfeboro, N.H.) \$65.

**Saul Benison; A. Clifford Barger; Elin L. Wolfe.** *Walter B. Cannon: The Life and Times of a Young Scientist.* xiv + 520 pp., illus., index. Cambridge, Mass./London: Belknap Press of Harvard University Press, 1987. \$30.

**Joachim Bergman; Hartum Hirsch-Reinsen; Roland Springer; Harald Wolf.** *Rationalisierung, Technisierung und Kontrolle des Arbeitsprozesses: Die Einfuhrung der CNC-Technologie in Betrieben des Maschinenbaues.* (Campus Forschung, 514.) 160 pp. Frankfurt: Campus Verlag, 1986. DM 39.

**Peter G. Bergmann.** *The Riddle of Gravitation.* xix + 233 pp., illus., figs., apps., index. Revised edition. New York: Charles Scribner's Sons, 1968; 1987. \$18.95.

**Jeremy Bernstein.** *The Life It Brings: One Physicist's Beginnings.* xv + 171 pp., illus. New York: Ticknor & Fields, 1987. \$16.95.

**Frank Blackler; David Osborne** (Editors). *Information Technology and People: Designing for the Future.* viii + 262 pp., figs., index. Letchworth, Herts.: British Psychological Society, 1987. (Distributed in the Western Hemisphere by MIT Press, Cambridge, Mass.) \$30.

**Charles Blinderman.** *The Piltdown Inquest.* 261 pp., illus., bibl., index. Buffalo, N.Y.: Prometheus Books, 1986. \$22.95.

**Hans Blohm; Stafford Beer; David Suzuki.** *Pebbles to Computers: The Thread.* 112 pp., illus. Toronto: Oxford University Press (Canadian Branch), 1986. \$18.95.

**Geoffrey H. Blowers; Alison M. Turtle** (Editors). *Psychology Moving East: The Status of Western Psychology in Asia and Oceania.* (A Westview Special Study.) xix + 362 pp., bibls. Boulder, Colo./London: Westview Press; Sydney: Sydney University Press, 1987. \$28.50 (paper).

**Susan Bourgeois.** *Nervous Juices and the Feeling Heart: The Growth of Sensibility in the Novels of Tobias Smollett.* (American University Studies, Series 4: English Language and Literature, 35.) 188 pp. New York/Bern/Frankfurt am Main: Peter Lang, 1986. \$28.50. (Photo-offset from typescript.)

✓ **Peter J. Bowler.** *Theories of Human Evolution: A Century of Debate, 1844-1944.* xiii + 318 pp., illus., bibl., index. Baltimore/London: Johns Hopkins University Press, 1986. \$32.50.

**John Bowman** (Editor). *The Facts on File Scientific Yearbook, 1987.* 215 pp., illus., figs., apps., index. New York/Oxford: Facts on File, 1987. \$24.95.

**Allan M. Brandt.** *No Magic Bullet: A Social History of Venereal Disease in the United States since 1800, with a New Chapter on AIDS.* x + 266 pp., illus., app., index. Expanded edition. New York/Oxford: Oxford University Press, 1985, 1987. \$8.95 (paper).

**Francesca Bray.** *The Rice Economies: Technology and Development in Asian Societies.* xxi + 254 pp., illus., apps., bibl., index. Oxford/New York: Basil Blackwell, 1986. \$24.95.

**Jean-Pierre Briand; Pénélope Caspard-Karydis; Jean-Michel Chapoulie; Thérèse Charmasson; Serge Chassagne; Alain Choppin; Martine Sonnet.** *L'histoire de l'enseignement, XIX-XX siècles: Guide du chercheur.* 228 pp., bibl., indexes. Paris: Institut national de recherche pédagogique/Publications de la Sorbonne, 1986. Fr 70 (paper).

**Frank Burch Brown.** *The Evolution of Darwin's Religious Views.* (National Association of Baptist Professors of Religion Special Studies Series, 10.) viii + 56 pp., index. Macon, Ga.: Mercer University Press, 1986. (Paper.)

**Hanbury Brown.** *The Wisdom of Science: Its Relevance to Culture and Religion.* ix + 194 pp., illus., bibl., index. Cambridge/London/New York: Cambridge University Press, 1986. \$32.50 (cloth); \$13.95 (paper).

✓ **Robert V. Bruce.** *The Launching of Modern American Science, 1846-1876.* (The Impact of the Civil War.) x + 446 pp., illus., bibl., index. New York: Knopf, 1987. \$30.

**John Bull.** *Birds of New York State, Including the 1976 Supplement.* xii + 703 pp., illus., apps., bibl., index. New York: Doubleday/Natural History Press, 1974; Ithaca, N.Y.: Cornell University Press, 1985. \$49.50 (cloth); \$24.95 (paper).

**Alfred Burger.** *Drugs and People: Medications, Their History and Origins, and the Way They Act.* viii + 176 pp., app., index. Charlottesville: University of Virginia Press, 1986. \$17.50 (cloth); \$13.95 (paper).

✓ **John G. Burke.** *Cosmic Debris: Meteorites in History.* x + 445 pp., illus., bibl., indexes. Berkeley/Los Angeles/London: University of California Press, 1986.

**Frederick Burkhardt; Sydney Smith; Janet Browne; David Kohn; William Montgomery** (Editors). *The Correspondence of Charles Darwin. Volume II: 1837-1843.* xxxiii + 603 pp., illus., apps., bibl., index. Cambridge/London/New York: Cambridge University Press, 1986. \$37.50.

**Robert Butts** (Editor). *Kant's Philosophy of Physical Science: Metaphysische Anfangsgründe der Naturwissenschaft, 1786-1986.* (University of Western Ontario Series in Philosophy of Science, 33.) xii + 363 pp., illus., bibl., index. Dordrecht/Boston/Lancaster: D. Reidel, 1986. (Distributed in the U.S. and Canada by Kluwer Academic Publishers, Norwell, Mass.) Dfl 142, \$69, £45.

**William Buxton.** *Talcott Parsons and the Capitalist Nation-State: Political Sociology as a*

*Strategic Vocation*. xii + 331 pp., bibl., index. Toronto/Buffalo, N.Y./London: University of Toronto Press, 1985. \$37.50 (cloth); \$14.95 (paper).

**Walter B. Cannon.** *The Mechanical Factors of Digestion*. Introduction by **Horace W. Davenport**. (Resources in Medical History.) xii + 195 pp., illus., figs., index. Revised edition. London: Edward Arnold; New York: Longmans, Green, 1911; Canton, Mass.: Science History Publications/USA, 1986. \$20.

**Gwendy Caroe.** *The Royal Institution: An Informal History*. xi + 180 pp., illus., bibl., index. London: John Murray, 1985. £13.95.

**Ching-chih Chen.** *Scientific and Technical Information Sources*. xxxvii + 824 pp., indexes. Second edition. Cambridge, Mass./London: MIT Press, 1977; 1987. \$55.

**Martin Chermiack.** *The Hawk's Nest Incident: America's Worst Industrial Disaster*. x + 194 pp., illus., figs., bibl., index. New Haven, Conn./London: Yale University Press, 1986. \$19.95.

**C.I.D.I. di Firenze** (Editors). *Storicità e attualità della cultura scientifica e insegnamento delle scienze*. xxiv + 260 pp., figs. Florence: Manzoni Editore; Casale Monferrato: Casa Editrice Marietti, 1986. L 22,000 (paper).

**Marshall Clagett.** *Archimedes in the Middle Ages*. Volume V: *Quasi-Archimedean Geometry in the Thirteenth Century*. (Memoirs of the American Philosophical Society, 157.) 2 volumes. v + 716 pp., illus., apps., bibl., indexes. Philadelphia: American Philosophical Society, 1984. \$50.

**John G. Clark.** *Energy and the Federal Government: Fossil Fuel Policies, 1900-1946*. xxiii + 511 pp., illus., index. Urbana/Chicago: University of Illinois Press, 1987. \$39.95.

**Frank Close; Michael Marten; Christine Sutton.** *The Particle Explosion*. 239 pp., illus., bibl., index. New York/Tokyo/Melbourne: Oxford University Press, 1987. \$35.

**Michael P. Closs** (Editor). *Native American Mathematics*. 431 pp., illus., figs., bibl. Austin: University of Texas Press, 1986. \$35.

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**Malcolm Quantrill.** *The Environmental Memory: Man and Architecture in the Landscape of Ideas.* xxiii + 214 pp., illus., bibl., index. New York: Schocken, 1987. \$19.95.

**Susan D. Quarles** (Editor). *Guide to Federal Funding for Social Scientists.* Prepared by the Consortium of Social Science Associations. xi + 382 pp., index. New York: Russell Sage Foundation, 1986. (Distributed by Basic Books, New York.) \$24.95 (libraries), \$19.95 (nonmembers), \$14.95 (COSSA members) (paper).

**Jacques M. Quen** (Editor). *Split Minds, Split Brains: Historical and Current Perspectives.* xiv

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+ 186 pp., figs., index. New York/London: New York University Press, 1986. \$38.

**Otthein Rammstedt.** *Deutsche Soziologie, 1933-1945: Die Normalität einer Anpassung.* (Suhrkamp-Taschenbuch Wissenschaft, 581.) 412 pp., bibl. Frankfurt am Main: Suhrkamp, 1986. \$13.20 (paper).

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