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HISTORY OF SCIENCE SOCIETY

BERN DIBNER 1897-1988



The following is a shortened version of the éloge to be published in the September 1988 issue of Isis.

ON 6 JANUARY 1988 Bern Dibner died peacefully in his sleep at his home in Wilton, Connecticut. With his passing the history of science community has lost one of its most committed scholars and dedicated patrons. The many gifts he made to institutions of higher education and to the Smithsonian were expressions of his deep love for his adopted country, of his gratitude for the opportunities presented to him as one of its citizens, and of his bonds to its people and its cultural heritage.

Bern Dibner was born in 1897 in a tiny village near Kiev in the Ukraine. At the start of the Russo-Japanese war in 1904, the family emigrated to the United States and settled in New York City. In his school years he was attached to both the arts and the sciences, but on graduating he chose to become an electrician. He then attended the Polytechnic Institute of Brooklyn and graduated in 1921, cum laude, with a degree in electrical engineering. He subsequently invented an electric connector that was universal in its connecting capabilities and did not require any soldering or welding, and in 1924 he founded the Burndy Engineering Company to manufacture and sell connectors of various sizes and shapes to the electric power industry. (Bern Dibner's son, David, is chairman of the board of what is now the Burndy Corporation.)

The success of the firm allowed Bern Dibner to resume his artistic interests. In 1930 a book he read changed his life. From *Men and Machines*, by Stuart Chase, he learned of Leonardo's technological and scientific bent. Leonardo's dual passion for the arts and for technology resonated with his own. It was then that he began collecting Leonardo materials. Taking a leave from the Burndy

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

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

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NEWS OF THE SOCIETY

HSS Nominations—1988 Election

The Committee on Nominations, chaired by Stephen G. Brush, has nominated the following individuals. For Council: Lawrence Badash, Richard Burkhardt, Joan Cadden, Betty Jo T. Dobbs, Frederick Gregory, Sally Gregory Kohlstedt, Diane Paul, Philip J. Pauly, Albert Van Helden, and Robert S. Westman. For the Committee on Nominations, from Council: Edward Grant, Erwin Hiebert, Sharon Kingsland, Ernan McMullin, Kathryn Olesko, Shirley A. Roe, and William A. Wallace. For the Committee on Nominations, from the Society at large: John Beatty, Robert E. Kohler, John W. Servos, and Edith Dudley Sylla.

According to the Society's Constitution, members have two months from the appearance of the *Newsletter* to nominate additional candidates. Petitions for Council

candidates must contain at least fifteen signatures and the agreement of the person nominated; they must reach the Society's Executive Secretary by the **10 June** deadline for the July *Newsletter* if the individuals' names are to be reported there. To allow time for petition candidates to submit biographies and photographs for the *Newsletter*, earlier submission is needed.

Election for HSS Vice-President

As the HSS Executive Secretary received no petitions nominating additional candidates, ballots listing the two individuals named by the Committee on Nominations, Stephen G. Brush and Daniel J. Kevles, were distributed to the membership on 15 March 1988. **Please contact the HSS Publications Office immediately if you have yet to receive your ballot.**

Completed ballots must be received by the HSS Executive Secretary by **15 April 1988**. Results of this election will be announced in the July *Newsletter*.

HSS Support for Thematic Meetings

In 1986 the History of Science Society began a program to sponsor or endorse occasional or thematic scholarly meetings. Later this spring, for example, the Society will cosponsor a conference celebrating the 350th anniversary of Descartes's *Discourse on Method* and a symposium on the history of modern mathematics. (See Meetings and Lectures section for further information.) The committee overseeing this program hereby issues a third call for applications for sponsorship and endorsement.

To be endorsed or sponsored by the Society, a meeting must be held at a different time of year and in a different place from the HSS annual meeting. The meeting should address a thematic question in the history of science. *Endorsed* meetings

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Company in 1936, he went to Italy and then to Zurich, where he studied Renaissance culture at the university.

Bern Dibner's encounter with Leonardo burgeoned into his great enterprise of collecting the primary sources of the history of science and technology in all fields. Initially the books and papers were stored in metal cases in his office. The collection, which became known as the Burndy Library, was chartered in 1941. By the mid 1950s a separate building was needed to house the 40,000 volumes collected by then; the elegant and distinctive Burndy Library building was designed and finally opened in 1964. Bern Dibner saw the Burndy Library not merely as a "steward of the written and printed word establishing the discipline of science," but also as contributing in important ways to the dissemination of "the story of the attainment and methods of science."

What made Bern Dibner so extraordinary is that he was not only an inventive and imaginative engineer, an able and successful businessman, a respected captain of industry, a generous philanthropist, one of the great book collectors, and the founder of a magnificent library, but that he was also a fine scholar. He was the author of twenty-one of the publications

of the Burndy Library and the joint author of three of them. A characteristic example of his scholarship was his book *Oersted and the Discovery of Electromagnetism* (1961). Undoubtedly his favorite among all the books he wrote was *Heralds of Science* (1955, 1980). In this magnificently produced book, he revealed the essential bond that existed between his collecting and his scholarship. At first sight *Heralds of Science* seems merely to be a beautifully illustrated catalogue of two hundred "epochal books and pamphlets in the physical and biological sciences in the Burndy Library that were instrumental in establishing our age of

science." But the simplicity and lucidity of his annotations should not deceive the reader. Impressive scholarship was at work in the choice of these two hundred important and seminal works. It is regularly cited in the characterization of books of exceptional importance.

Not content to have created the Burndy Library, Bern Dibner replicated its mission elsewhere. He donated two major collections to Brandeis University and made substantial contributions of books to Harvard, Yale, the Polytechnic Institute of Brooklyn, Wesleyan, and the University of Bridgeport. In 1976 he established the Dibner Library, a national library in the history of science and technology, at the Smithsonian Institution in Washington, D.C.; to it he donated 11,000 volumes, plus incunables and manuscripts. He also endowed institutions of higher education heavily. His gifts established the Bern and Barbara Dibner Chair in the History of Science at Brandeis University, the Bern Dibner Library at the Polytechnic Institute of Brooklyn, and a curatorship and a chair at the Hebrew University in Jerusalem. The culmination of Bern Dibner's lifelong involvement in the history of science was realized in the founding of, with support from the Dibner Fund, the Dibner Institute for the History of Science and Technology in 1987, a consortium of



The Sarton Medal. Courtesy of the Burndy Library.

will receive the approbation and encouragement of the Society and will have the right to use the Society's name in fund-raising and promotion. A limited number of *sponsored* meetings, to be chosen on a competitive basis, will be eligible for financial support. In evaluating proposals for endorsement or sponsorship, the selection committee will emphasize the following criteria: scholarly merit, regional needs, importance of subject, and diversity of audience. Applications for sponsorship may request funds for expenses only; honoraria and overhead will not be provided. The maximum award will be \$3,000, although most awards will be smaller. For further information and application guidelines, contact John W. Servos, Department of History, Amherst College, Amherst, MA 01002; (413) 542-2035. The selection committee also includes William Montgomery and Martha Verbrugge. The next deadline for applications will be **15 September 1988** for meetings to be held before 30 June 1991.

institutions of higher learning in the Greater Boston area. He actively helped plan the institute and took part in its inaugural meeting last December, at which he expressed great satisfaction at having seen his plans bear fruit. It was his last professional activity.

As all members of the History of Science Society are aware, Bern Dibner was also a generous patron of our Society. For decades he made a gift every year and in addition supported the funding of the Sarton Medal awards. He helped launch the drive to secure the future of *Isis* and to establish an endowment fund for the other programs by making challenge grant pledges in 1984 and 1986 totaling \$450,000. It was an act that transformed our hopes, both for the Society and for the profession it serves.

During the last few months, still going daily to his library at the age of 90, Bern Dibner sought extra solace in his work after the death of his wife, Barbara, on 19 May 1987. He lives on in the scholarly activities he launched and in the powerful effect he had on everyone whom he encountered. Iron integrity marked every facet of his manifold activities. His unique combination of kindly interest and total honesty earned him the respect and affection of all who came in contact with him.

HSS Officers & Committee Chairs, 1988-1989

Society members are urged to use these addresses and telephone numbers to contact those with responsibility for and oversight of specific HSS activities and programs.

Officers

President: Mary Jo Nye, Department of History of Science, University of Oklahoma, Norman, OK 73019; (405) 325-2213. Through June 1988:

Department of the History of Science, Harvard University, Science Center 235, Cambridge, MA 02138; (617) 495-3741.

Vice-President: to be elected.

Executive Secretary: Michael M. Sokal, History of Science Society, 35 Dean Street, Worcester, MA 01609; (617) 793-0712; Department of Humanities, Worcester Polytechnic Institute, Worcester, MA 01609; (617) 793-5363.

Treasurer and Chair, Committee on Finance: Mary Louise Gleason, 54 Riverside Drive, Apt. 3D, New York, NY 10024; (212) 595-6084.

Editor of Isis: Charles E. Rosenberg, Department of History and Sociology of Science, University of Pennsylvania, E. F. Smith Hall, 215 South 34th Street, Philadelphia, PA 19104-6310; (215) 898-8400.

Editor-Elect of Isis: Ronald L. Numbers, Department of History of Medicine, University of Wisconsin, 1300 University Avenue, Madison, WI 53706; (608) 262-3701.

Editor of Osiris: Arnold Thackray, Beckman Center for the History of Chemistry, 3401 Walnut Street, University of Pennsylvania, Philadelphia, PA 19104; (215) 898-4896.

Director of Publications: Frances Coulborn Kohler, 215 South 34th Street, Philadelphia, PA 19104-6310; (215) 898-8575.

Chairs of Standing Committees

Chair, Committee on Education: Kathryn Olesko, Department of History, Georgetown University, Washington, DC 20057; (202) 625-4910. Through May 1988, Program in History of Science, Princeton University, 220 Palmer Hall, Princeton, NJ 08544; (609) 452-4716.

Chair, Committee on Honors and Prizes: Albert E. Moyer, Department of History, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061; (703) 961-5216.

Chair, Committee on Meetings and

Programs and Committee on Thematic Meetings: John W. Servos, Department of History, Amherst College, Amherst, MA 01001; (413) 542-2035.

Chair, Committee on Nominations: Stephen G. Brush, Institute for Physical Science and Technology, University of Maryland, College Park, MD 20742; (301) 454-2724.

Chair, Committee on Publications: Daniel J. Kevles, Humanities Division, California Institute of Technology, Pasadena, CA 91125; (818) 356-6811.

Chair, Committee on Research and the Profession: William Montgomery, Department of Interdisciplinary Studies, North Adams State College, North Adams, MA 01247; (413) 664-4511, ext. 375.

Cochairs, Committee on Women: Rima D. Apple, 2013 Madison Street, Madison, WI 53711; (608) 251-3094; Elizabeth Barnaby Keeney, Department of the History of Science, Harvard University, Science Center 235, Cambridge, MA 02138; (617) 495-3742.

Chairs of Program and Ad Hoc Committees

Chair, Committee on Fund-Raising: Gerald Holton, Department of Physics, Harvard University, Jefferson Physical Laboratory, Cambridge, MA 02138; (617) 495-4474.

Chair, Committee on Independent Scholars: Pamela E. Mack, Department of History, Clemson University, Clemson, SC 29631; (803) 656-3153. Through June 1988: Department of History, Mount Holyoke College, South Hadley, MA 01075-1493; (413) 538-2224.

Chair, Committee on Programs and Priorities: Arthur L. Norberg, Charles Babbage Institute, University of Minnesota, 104 Walter Library, 117 Pleasant Street SE, Minneapolis, MN 55455; (612) 624-5050.

Chair, National Committee, Visiting Historians of Science Program: Joe D. Burchfield, Department of History, Northern Illinois University, DeKalb, IL 60115; (815) 753-0131. Through June 1988: Department of History, Duke University, Durham, NC 27708; (919) 967-5448.

FELLOWSHIPS



The Committee on Research of the **American Philosophical Society** meets several times a year to evaluate the approximately 700 applications it receives annually. About 30% of the applicants receive funding. The Society makes grants toward the cost of scholarly research in all areas of knowledge except those in which support by government or corporate enterprise is more appropriate or regularly available. It is the Society's long-standing practice to encourage research by younger and less well established scholars, though not for predoctoral research or study. For applica-

tion forms, briefly describe your project and proposed budget in a letter to Committee on Research, American Philosophical Society, 104 South Fifth Street, Philadelphia, PA 19106.

California Institute of Technology announces a one-year postdoctoral fellowship (renewable for a second year) in history of science or technology since the late nineteenth century, in life or physical sciences with a focus on public policy. The appointment will begin in fall 1988; requirements for the Ph.D. must be completed by September 1988. The holder of the fellowship will divide his or her time between independent work and assisting in research on subjects such as genetics and society or science and defense. Applications are welcomed from students of American history with interests in scientific and technological issues as well as from historians of science or technology. The deadline is **30 April 1988**. Please send

letter of application, dossier, recommendations, and statement of independent research plans to Daniel J. Kevles, 228-77, California Institute of Technology, Pasadena, CA 91125.

The Fellows Program of the **Center for Theoretical Studies** is an unstructured program designed to further the development primarily of younger scientists pursuing basic theoretical research in physics, biology, chemistry, and mathematics and in the history and philosophy of science. Fellows have no assigned duties, and appointments are open to senior and postdoctoral scholars wishing to broaden the scope of their interests. Recent Ph.D.s will usually be in residence for periods of one year (renewable); established scholars may elect to be in residence for one or more semesters. Contact Linda F. Scott, Deputy Secretary, University of Miami, P.O. Box 249055, Coral Gables, FL 33124; (305) 284-4455.

POSITIONS

The History of Science Society will continue to offer its **Job Opening Notification Service**, designed to inform those interested in employment opportunities announced *after* the deadline of one *Newsletter* and scheduled to close *before* the next *Newsletter* will appear. Individuals wishing to receive notices of such job openings should write to the HSS Executive Secretary and indicate (a) the specific fields in which they are most interested; and (b) any geographical restrictions or preferences. Departments, programs, and other groups should name one individual who will oversee the appropriate distribution of these notices among students, alumni, and members. Departments and programs may be asked to contribute a nominal sum to help support the service.

The Department of History of the **University of Alabama in Huntsville** seeks to appoint a tenure-track assistant professor. Responsibilities include teaching of Western civilization and United States surveys, plus upper-division and graduate courses. About one half of the individual's time

would be devoted to work with other faculty members and graduate students on research and writing related to the history of the NASA Marshall Space Flight Center. Send curriculum vitae, transcripts, and three current letters of recommendation to Johanna Shields, Department of History, University of Alabama, Huntsville, AL 35899.

The **American Institute of Physics Center for History of Physics** seeks a historian of physical science to serve as project historian for a major new study of multi-institutional collaborations. The initial two years of the long-term study will focus on the area of high-energy physics. (See the description under "Related Societies & Programs.") The Project Historian will play a central role in activities such as developing data files, conducting interviews, and preparing reports on findings. There will be opportunities for historical research leading to publication. A Ph.D. in history of science with some background in physics is preferred. The AIP offers competitive salaries and is an equal opportunity employer. Send résumé and letter of application to Joan N. Warnow, AIP Center for History of Physics, 335 East 45 Street, New York, NY 10017. Deadline for applications is **1 July 1988**.

The **National Air and Space Museum, Smithsonian Institution**, is seeking to appoint a curator in the Department of Aeronautics. The position requires extensive knowledge of the history of aviation or air power, which may include one or more of the following areas of specialization: history of the U.S. Air Force; strategic bombing; history of aeronautical science and technology; history of aviation in the U.S. or Europe; aviation industry and institutions. Interested applicants should forward a completed SF 171 (application for federal employment), a vita, and abstracts of two or three of their most significant publications to Smithsonian Institution, Employment Office, Washington, DC 20560, Attention: MPA-87-60-F.

The **National Museum of American History (NMAH), Smithsonian Institution**, seeks to appoint three new curators. Responsibilities for each position include research, interpretation, publication, exhibition, and collection development in the area of specialization. The specific open positions are in the following fields. (1) The history of American science, with emphasis on the history of life sciences since 1880. Candidates must provide evidence of professional historical research in the intellectual and social history of the life sciences. Applications will

The **Council for International Exchange of Scholars** announces the opening of competition for the **1989-1990 Fulbright Grants** for research and university lecturing abroad. The awards will include more than 1,000 grants for periods ranging from three months to a full academic year. There are openings in over 100 countries and, in many regions, multicountry research opportunities are available. Fulbright Awards are granted in virtually all disciplines, and scholars in all academic ranks are eligible to apply. Applications are seriously encouraged from retired faculty and independent scholars. For more information and applications, call or write Council for International Exchange of Scholars, Eleven Dupont Circle NW, Washington, DC 20036-1257; (202) 939-5403.

The **Sidney M. Edelstein Center** for the History and Philosophy of Science, Technology and Medicine of the **Hebrew**

University of Jerusalem announces Post-Doctoral Fellowships for the 1988-1989 academic year. Students with a Ph.D. degree or its equivalent in the history, philosophy, or sociology of science, as well as in the physical and life sciences, are invited to apply. The application should include curriculum vitae, list of publications, letters of recommendation, the abstract and a sample chapter from the doctoral dissertation, and an outline of a planned project.

Major relevant collections include the Edelstein Collection (chemistry, alchemy, and dyeing), the Albert Einstein Archive, the theological manuscripts of Isaac Newton, and the Friedenwald Collection (history of medicine). The Center is also a repository for the Archive for the History of Quantum Physics assembled by the American Institute of Physics. Applications should be addressed to the Edelstein Center, Hebrew University, Givat Ram, 91904 Jerusalem, Israel.

The **Indo-U.S. Subcommittee on Education and Culture** is offering twelve long-term (6-10 months) and nine short-term (2-3 months) awards for research in India during 1989-1990. These grants will be available in all academic disciplines, and scholars with limited or no prior experience in India are encouraged to apply. The application deadline is **15 June 1988**. Application forms and further information are available from Council for International Exchange of Scholars, Indo-American Fellowship Program, 11 Dupont Circle NW, Suite 300, Washington, DC 20036-1257; (202) 939-5469.

The **National Endowment for the Humanities** announces two categories of fellowships for the 1989-1990 academic year. These are **Fellowships for University Teachers**, intended for faculty and staff members of universities that grant the Ph.D. and of postgraduate professional

Continued on next page

be accepted **immediately**, and until a suitable candidate is identified. Direct inquiries and requests for announcement 88-117F to Ramunas Kondratas, Division of Medical Sciences, NMAH, Room 5000, Smithsonian Institution, Washington, DC 20560; (202) 357-2145. (2) The history of marine transportation, naval architecture, and related areas. The museum is seeking applications from maritime historians, marine archeologists, anthropologists interested in maritime history, historians of maritime commerce, and social historians of maritime labor, the Spanish Conquest, or other topics. Direct inquiries and requests for announcement 88-98F to William Withuhn, Division of Transportation, NMAH, Room 5010, Washington, DC 20560; (202) 357-2025. (3) The history of technology, with emphasis on the history of engineering in the United States. Candidates must provide evidence of research and scholarship, and those demonstrating expertise in both technical developments and their sociocultural context are preferred. Direct inquiries to Bernard S. Finn, Division of Electricity, NMAH, Room 5025, Washington, DC 20560; (202) 357-1840.

The **Tennessee Valley Authority** is seeking a program administrator for its historical

collections. Candidates should have a master's degree in museum studies or related fields with museum emphasis and at least three years' experience in the museum profession. Experience in industrial technology and material culture is strongly desired. The position will involve research in the public history of the TVA leading to the development and oversight of the TVA Historical Collection. Send curriculum vitae, request for detailed job description, and request for application to Tennessee Valley Authority, Cultural Resources Program, Norris, TN 37828.

Worcester Polytechnic Institute announces the establishment of the Paris Fletcher Distinguished Professorship in the Humanities, a generously endowed chair carrying a half-time teaching responsibility within the Department of Humanities and ample opportunity and support for research. Nominations of and applications from distinguished senior figures in American studies (any liberal arts discipline) or in creative writing and criticism are welcomed. All correspondence should be addressed to Jo Ann Manfra, Chair, Department of Humanities, Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA 01609; (617) 793-5385.

APRIL DEADLINES

The Department of Medical History and Ethics, School of Medicine, **University of Washington**, seeks to appoint an assistant professor whose prime responsibility will involve teaching and lecturing in medical ethics. A completed doctoral degree in one of the disciplines relevant to medical ethics is required. Candidates with some background in the history of medicine will be looked upon favorably. Some experience in clinical instruction and consultation in medical ethics is desirable, and competence in medical jurisprudence, health law, or philosophy of medicine will also be taken into account. Though primarily responsible for teaching history and ethics in the School of Medicine, the department also does some teaching in the College of Arts and Sciences, particularly in the undergraduate program in the History of Science, Technology, and Medicine. The department offers master's degrees in medical history and ethics. Applications are due **30 April 1988**. Submit a letter of interest, curriculum vitae, and list of at least three references (giving position, address, and phone number) to Faculty Search Committee, Department of Medical History and Ethics, A-204 Health Sciences SB-20, University of Washington, Seattle, WA 98195; (206) 543-5447.

FELLOWSHIPS—continued

schools, and **Fellowships for College Teachers and Independent Scholars**, designed for faculty and staff members of two-year and four-year colleges and universities that do not grant the Ph.D., individuals affiliated with institutions other than colleges and universities, and scholars and writers working independently.

Successful applicants may begin tenure of their fellowships as early as 1 January 1989, and as late as the beginning of the spring term of the 1989-1990 academic year. Fellowship tenure may last from six to twelve months, the application deadline is **1 June 1988**, and decisions will be announced in mid December 1988. For further information and application materials write to the Division of Fellowships and Seminars, Room 316, National Endowment for the Humanities, 1100 Pennsylvania Avenue NW, Washington, DC 20506.

The **Rockefeller Archive Center** of the Rockefeller University announces the creation of an annual Scholar in Residence Program in the general field of the history of philanthropy, designed to foster research in the holdings of the Center. Applications are encouraged from established researchers and scholars who would benefit substantially from an extended period of research at the Center. The application should include a curriculum vitae, a letter detailing the candidate's research interests and demonstrating familiarity with the Center's holdings, and letters of reference from three persons familiar with the candidate's research and scholarship. Address inquiries and applications to Darwin H. Stapleton, Director, Rockefeller Archive Center, Pocantico Hills, North Tarrytown, NY 10591.

The Institute for Research in the Humanities of the **University of Wisconsin-Madison** invites applications for several postdoctoral fellowships tenable at the Institute during the 1989-1990 academic year. The Institute supports research in history (including the history of science), philosophy, and language and literature. The Institute is particularly eager to assist young scholars who have research projects well advanced. The stipend is currently set at \$22,000. Application deadline is **15 October 1988**. For additional information, write Institute for Research in the Humanities, Old Observatory, University of Wisconsin, Madison, WI 53706.

RESEARCH OPPORTUNITIES

The **NASA History Office** currently seeks proposals for two particular kinds of projects. (1) A **Documentary History of the Space Age**, with special emphasis on the U.S. space program. Primary focus should be on the post-World War II period. Proposals should be submitted by **1 August 1988**. Please notify the History Office by **1 July 1988** if you plan to submit a proposal. (2) Research and writing projects in **NASA-related Aerospace History**, leading to the completion of publishable journal-length essays or small monographs. Proposals should be submitted by **15 June or 15 October 1988**. For further guidance in preparing both kinds of proposals, please see *History at NASA* (HHR-50), or contact Sylvia D. Fries, Director, NASA History Office, National Aeronautics and Space Administration, Washington, DC 20546; (202) 453-8300.

The divisions of Materials Development and of Teacher Preparation and Enhancement of the **National Science Foundation** have just committed up to \$1 million to support projects involving the History and Philosophy of Science, Technology, and Mathematics in Elementary and Secondary Education. Their solicitation (NSF 88-14) calls for proposals that *either* would introduce historical or philosophical perspectives into curriculum materials and the teaching of science, *or* would introduce the history and impact of science into curriculum materials and the teaching of history. They explicitly hope to receive proposals for projects that will combine the skills of historians or philosophers with the expertise of those who have worked in elementary and secondary curriculum design and implementation; as the solicitation notice says, "the availability to a project of experience in both areas is critical."

Potential applicants should contact, as soon as possible, Mary Kohlerman, Program Director, Instructional Materials Development Program, Room 635, National Science Foundation, Washington, DC 20550; (202) 357-7066. They should also consult the following program announcements: NSF 88-10, Division of Teacher Preparation and Enhancement; NSF 88-12, Division of Materials Development, which includes all appropriate forms; NSF 88-14, the formal solicitation of these projects; and (if necessary), NSF 83-57 (revised 1/87), "Grants for Research and Education in Science and Engineer-

ing," NSF's general guide for proposal writers.

The deadline for formal proposals in response to the solicitation is **1 June 1988**, and NSF expects potential applicants to submit preliminary proposals as soon as possible. These should present, in two to six pages, both the general concept around which the formal proposal will be developed and some idea of the amount that will be requested. The program hopes to respond to these preliminary proposals within two to four weeks of their receipt.

Members of the History of Science Society who have any interest whatsoever in the educational concerns represented by this solicitation are urged to submit preliminary proposals, even if they doubt that they can meet the 1 June 1988 deadline for formal proposals. Doing so would do much to ensure that NSF remains aware of the full breadth and depth of our members' interest in educational matters.

The **National Science Foundation** has created, within the Division of Instrumentation and Resources (DIR) of the Directorate of Biological, Behavioral, and Social Sciences, a **Program for Studies in Science, Technology, and Society**. This new program has assumed the responsibilities of the Program in History and Philosophy of Science (HPS, which had previously operated within the Division of Social and Economic Sciences) and the Program in Ethics and Values Studies (EVS). The director of DIR is John Wooley, and the codirectors of the new program are the former directors of the earlier programs, Ronald J. Overmann (of HPS) and Rachele D. Hollander (of EVS). Both will continue to oversee proposals in their own areas of expertise and will hold separate panel meetings, and the new program may in the future also fund some research in the sociology of science. For the 1987 fiscal year (1 October 1986 through 30 September 1987), HPS and EVS budgets had totaled \$2.09 million and, for the 1988 fiscal year (which began on 1 October 1987), the new Program's budget is \$2.09 million. A total of \$2.28 million has been requested for the 1989 fiscal year (which will begin on 1 October 1988) and, since ethics and values studies have access to funds that have been set aside in other NSF research and education directorates, the program's budget is effectively larger. For further information, contact Dr. Overmann, (202) 357-9677; or Dr. Hollander, (202) 357-9894.

History of Science Society Employment Survey, 1986-1987

by SARA JOAN MILES
Wheaton College

With
PAMELA MACK
Clemson University

LOIS MAGNER
Purdue University

JAN BUTIN SLOAN
University of Kansas

The results of the twelfth annual HSS employment survey were reported at the yearly meeting in Raleigh in October 1987, and that information is presented below.

Between 1 May 1986 and 30 April 1987, 63 positions were advertised for which history of science, technology, or medicine (HSTM) was a required, desirable, or possible field of specialization. The same sources that have been used for the past four years were reviewed: *HSS Newsletter*, *AHA Perspectives*, *SHOT Newsletter*, *Bulletin of the American Association for the History of Medicine*, and the *Chronicle of Higher Education*. Of the 63 advertised positions, 2 were canceled, and no data are available for 3 because the institutions refused to respond to our requests for information. The available data were amassed through a mail survey (stamped envelopes were included for easy reply), a follow-up mailing two months later to institutions that had not responded, and telephone surveys one month after that for those that still had not returned the survey forms.

Of the remaining 58 positions, decisions had not been reached in 2 cases, and 2 positions were not filled because no suitable candidates were identified.

The primary nature of the positions advertised can be described as follows (although these are not always mutually exclusive categories): teaching (32, or 51%); research, editing, or writing (17, or 27%); library or museum work (7, or 11%); and administrative or office work (7, or 11%).

Three categories were used to classify the various positions: Category I contains all jobs for which HSTM was the primary area of expertise required; Category II contains those for which HSTM was listed as a desired secondary or supporting area of expertise; and Category III contains those for which HSTM was one of several possible areas of expertise. Each of these

categories was further divided into permanent and temporary positions.

The total number of advertised positions is two more than last year and equal to the number for 1984-1985. However, the number of jobs in Category I was significantly lower (31, or 49%, in 1986-1987 vs. 43, or 70.5%, in 1985-1986). Category II remained essentially the same (9, or 14%, this year vs. 8, or 13%, last year). The big change can be seen in Category III, which accounted for 23 jobs (37%) this year, compared with 10 (16.5%) last year. A negative interpretation of these figures would focus on the large drop in Category I; a more positive view would stress that HSTM is more often seen as a possible area of support when a need exists.

Comparisons between this year's results and last year's with regard to the total number of applications, the number of applications from males and females, and the relative number of applications from candidates with preparation in HSTM, history other than HSTM, or other fields cannot be made because 6 institutions could not provide complete data and 6 others could only give estimates. Nevertheless, the number of applications appears to have been significantly larger this year, with over 2,500 compared to 1,377 for 1985-1986. * If one assumes that the ratio of male to female applicants that can be determined in the data provided is representative of the total group, 3 males applied for positions for every female, a figure consistent with last year's results. Offers were extended to 64 individuals; excluding one unidentified individual, 41 went to men, 22 to women (65% to 35%). Thus females were more successful than their apparent total in the applicant pool would have predicted, a reversal of last

*The "applicant pool" is not synonymous with "total applications," as some candidates undoubtedly applied for more than one position.

year's totals, in which males were more successful (77% to 23%). Respondents were vague last year concerning the number of applications received from minorities. This year they not only were vague, but were unable to provide the data in many cases because the application process did not elicit that information. However, the number of applicants identified as minority rose from 19 last year to 40 this year (4 of them in estimated figures). Two of the successful candidates were members of a minority group. Overall, in terms of reported educational background, 1,363 (78%) applications were by holders of the Ph.D. or equivalent, 249 (14%) by A.B.D.s, and 133 (8%) by those with some other degree at the time of application, compared with last year's data of 75%, 20%, and 5%, respectively. Successful candidates had earned the Ph.D. in 82% of the cases, a jump from last year's 75%. The 8 positions that were filled by people holding a master's or a bachelor's degree were generally in writing, library or archival work, or museum work. Only 1 non-Ph.D. (an A.B.D.) was hired for a teaching position.

In Category I, where HSTM was the primary field of expertise sought, the male to female applicant ratio was slightly lower than in the general pool (74% male as opposed to 75%). Thirty-one offers were made in this category, with 21 going to men (68%) and 10 going to women (32%). (Two offers were turned down, one by a man and one by a woman.) These figures are consistent with the total employment picture, and they differ from last year's figures, in which successful candidates in this group were more likely to be males than in the total survey. Of those whose educational level and background were known, 30 (100%) had the Ph.D. or equivalent, 25 (83%) had a degree in HSTM, 3 (10%) had a degree in history other than HSTM, 1 (3%) had a degree in philosophy of science, and 1 (3%) had a degree in Russian studies.

In Category II, where HSTM was a desired secondary field, half of the 8 successful candidates were female. Three of the candidates had earned the Ph.D., 1 was a Ph.D. candidate, 2 had an M.A., 2 had a bachelor's degree, and 1 had no degree reported. With respect to the field of study, 3 had a background in HSTM, 3 in history other than HSTM, 1 in American studies, and 1 in political science. This is a reversal from last year's results,

Table I. HSTM the Primary Area of Expertise

	JOB DESCRIPTION				APPLICANT POOL				SUCCESSFUL CANDIDATE	
	Fields ^a		Background ^b	Rank ^c	Adve ^d	Total	M, F, Min	Degrees (PhD, ABD, other)	Fields (HSTM, Hist, not Hist)	Gender, degree & date, fields ^e
	HSTM	Other								
Permanent										
Univ California, San Diego	HS	17c-pres	PhD, broad	Open	AHA	29	26, 3, ?	29, 0, 0	—, —, —	M, PhD —, HSTM
Univ California, San Francisco	HM	AmM or clinic	PhD or MD	Open	AHA, CHE, HSS, AAHM	82	49, 33, 6	66, 16, 0	66, —, 16	M, PhD 1986, HSTM
Case Western Reserve	HT	19-20c AmH	PhD, broad	Open	AHA, HSS, SHOT	36	28, 8, ?	30, 6, 0	10, 22, 4	M, PhD 1962, HSTM ^f
Univ Connecticut	HST	EurH	PhD, broad	Open	AHA, CHE, HSS, SHOT ^g	82	57, 25, ?	82, 0, 0	x, —, —	F, PhD 1976, HSTM
Cornell	H/PST	20c phys	PhD, —	Open	HSS, SHOT, AIP, PT	34	30, 4, ?	31, 3, —	5, 20, 6	F, PhD 1977, D/SA M, PhD, ? Phys/HSTM ^h M, PhD, ? Phys/HST ⁱ M, PhD 1983, HSTM
Cornell	H/PT	Engg tech	PhD, —	Asst	AHA, HSS, SHOT, IEEE, Spec, CBI, ME	35	30, 5, ?	25, 8, 2	0, 30, 5	
Cornell	HT	—	PhD, broad	Asst	AHA, CHE, HSS, SHOT, Other ^{ka}	12	12, 0, 0	10, 2, 0	x, —, —	M, PhD 1980, HSTM
Dartmouth	HS	—	PhD, —	Asst	AHA, CHE, HSS, SHOT, Other ^{ka}	60	41, 19, 2	45, 15, 0	60, 0, 0	M, PhD 1984, HSTM
Emory	H/PST	Admin	PhD, broad	Asst	AHA, CHE, HSS	107	94, 13, ?	—, —, —	—, —, —	M, PhD —, HSTM
Univ Georgia	HS	WestCiv or AmH	PhD, broad	Asst	AHA, CHE, HSS, SHOT ^l , GEB	34	26, 8, —	—, —, —	—, —, —	M, PhD 1984, HSTM
Illinois Inst Technology	HT	AmH or EurH	PhD, broad	Asst	AHA, HSS, Other ^{ka}	31	23, 8, ?	22, 7, 2	17, 11, 3	M, PhD 1987, HSTM
Lehigh	HT	—	PhD, —	Asst	AHA, CHE	36	23, 13, ?	21, 15, 0	29, 7, 0	M, PhD 1986, HSTM F, PhD 1987, HSTM ^h M, PhD 1982, HSTM
Michigan Tech	HT	SocRelT	PhD, broad	Asst	CHE, HSS, SHOT, Other ^{ka}	10	10, 0, ?	8, —, 2	9, 1, 1	
Univ New Hampshire	HS	Human	PhD, broad	Asst	AHA, HSS	60	44, 16, 8	—, —, —	—, —, —	M, PhD 1986, HSTM ^e
Penn State Coll Medicine	HSM	AmH (cult)	PhD, broad	Asst	CHE	30	19, 11, ?	21, 7, 2	8, 20, 2	F, PhD 1987, HSTM
Queens Coll, CUNY	H/PS	P/HS	PhD, broad	Open	AHA, CHE, AAUP, APA	70	50, 20, 3	65, 5, —	e35, 0, e35	M, MPhil 1976, HSTM ^e
Smithsonian: NASM	HST	Admin	PhD, broad	Dept chair	CHE, HSS	52	—, —, 3	—, —, —	—, —, —	M, PhD 1974, Russ Stud
Smithsonian: NMAH	HST	Tech skil	PhD, broad	Curator	AHA, CHE, HSS, SHOT, Sci, Other ^{ka}	52	—, —, —	—, —, —	—, —, —	M, PhD —, HSTM
Texas A & M	HT	—	PhD, not broad	Open	AHA, CHE	48	31, 17, ?	39, 9, 0	—, —, —	Position not filled
Univ Toronto	HT	—	PhD, —	Open	HSS	Refused to respond				
Univ Coll Virginia	HS	EurIntH	PhD, broad	Asst, assoc	HSS	Refused to respond				
Polytech	H/P/Soc STM	Admin	PhD, —	Direct & assoc or full	HSS	44	42, 2, 0	40, —, 4	4, 7, 33	M, —, —, —
Univ Wisconsin	HS	—	PhD, broad	Asst	AHA, HSS, BSHS, Other ^{ka}	38	30, 8, 0	30, 8, 0	35, 2, 1	F, PhD 1983, HSTM
Temporary										
Am Inst Ultrasound	HM	Writ	PhD, broad	N/A	HSS, AAHM	8	2, 6, 1	?, 1, ?	1, 1, ?	F, PhD 1987, HSocS
Brown	HBioM	Undgrad ed	PhD, —	Res fel	AHA, HSS, AAHM	45	22, 23, 0	e30, e15, —	—, x, —	F, PhD —, HSTM ^e F, PhD 1986, Hist
Case Western Reserve	HT	19-20c Am	PhD, broad	Postdoc	AHA, HSS, SHOT	36	28, 8, ?	30, 6, 0	10, 22, 4	M, PhD 1986, HSTM ^e M, PhD 1985, Hist
Darwin Project	HS	Edit (19c bio)	PhD, —	Asst	HSS	4	0, 4, —	3, 1, 0	4, 0, 0	F, PhD 1986, HSTM
Univ Minnesota, Twin Cities	HBio	—	PhD, —	Asst	AHA, HSS	2	1, 1, 0	2, 0, 0	2, 0, 0	F, PhD —, HSTM
NASA Hist Office	HT	Writ	PhD, —	—	HSS	Search canceled				
NASA Hist Office	HST	Policy	PhD, —	N/A	AHA, HSS, SHOT, NASA	3	3, 0, —	3, 0, 0	3, 0, 0	Evaluation continuing
Stanford	HS	Hmod phys	PhD, not broad	Postdoc	CHE, HSS	3	2, 1, 0	3, 0, 0	3, 0, 0	M, PhD 1987, HSTM

Key to Tables

Universities (Univ) are alphabetized under the main part of the name
 — = Respondent left blank
 x = Respondent checked the blank but did not give a number
 ? = Respondent uncertain
 "e" before a number indicates that respondent gave an estimate

^a Fields
 H = History
 M = Medicine
 P = Philosophy
 S = Science
 Soc = Sociology
 T = Technology
 Other abbreviations are self-explanatory
^b Background
 PhD = PhD required
 Not PhD = PhD not required
 Broad = broad historical background required
 Not broad = broad historical background not required

^c Rank
 Contr = contract historian
 Most other abbreviations indicate level of professor or other teaching position or of government service

^d Advertising media
 AA = Affirmative Action Newsletter
 AAHM = Bulletin of AAHM
 AAUP = American Association of University Professors

AHA = American Historical Association
 Perspectives
 AIP = American Institute of Physics
 APA = American Philosophical Association
 AWS = AWS Job Bulletin
 BS = Black Scholar
 BSHS = British Society for the History of Science Newsletter
 CBI = Charles Babbage Institute News
 CHE = Chronicle of Higher Education
 4S = 4S Newsletter
 GEB = Georgia Employment Bulletin
 HSS = HSS Newsletter
 IEEE = Institute of Electrical and Electronics Engineers
 MAR = MAR Archivists Newsletter
 MedLA = Medical Librarians Association News
 ME = M.E. Magazine
 NASA = NASA Newsletter
 Nat = Nature
 NYT = New York Times
 OAH = Organization of American Historians Newsletter
 PN = Philosophy Newsletter
 PT = Physics Today
 SAA = Society of American Archivists
 Sci = Science
 SHOT = SHOT Newsletter
 Spec = Spectrum
 Wat = Watermark
 WashP = Washington Post

Other sources:
^{ka} Electrical engineering journals
^{kb} 45 Meeting
^{kc} Circular to 82 schools
^{kd} Computer journals
^{ke} Graduate schools
^{kf} Political Science and International Affairs departments
^{kg} Universities, including women's and minority institutions
^{kh} Graduate schools with Ph.D. programs
^{ki} Government publications
^{kj} Smithsonian flyers and OPM networks

^k Two institutions reported hiring a minority candidate: Univ New Hampshire & Queens Coll

^l The successful candidate could not come immediately, so the same pool was used to select a person for a temporary position
^m Offer extended and then declined
ⁿ Quality of candidate pool so high that two candidates were hired
^o Two appointments were sought by the same search; one was filled and one will reopen shortly
^p Two people were hired for the same job description and from the same pool; the respondent also indicated that a third person was hired with specialization in early modern history but with considerable background in HM
^q Information available only on the 4 candidates interviewed

SURVEY—continued

in which 75% of the successful applicants in this category had their training in HSTM.

The third category, jobs for which HSTM was a possible field of expertise, yielded depressing results, for although HSTM was noted as a possible field for these positions, in fact only 1 of 24 jobs (4%) was filled by a candidate with a background in HSTM, whereas last year 4 of 7 successful candidates (57%) were in HSTM. The respondent for a position that was still open at the time of the survey indicated a desire to hire someone in HSTM but complained that there had been few applicants with that background. The data for the category indicate that this was the case for most of the positions. Of the 507 applicants for whom the field of study was noted, only 65 (13%) were in HSTM. A possible reason for this is noted in the last paragraph of this report and relates to where positions were advertised. One respondent noted that "the pool was composed largely of social historians. There were few historians of technology. Several well-prepared candidates had several years experience but very limited scholarship. Several A.B.D.'s did not demonstrate clearly that they would have degree in hand." It appears from this statement that the institution would have liked to hire someone in HT but could not find a suitable candidate. Another respondent echoed that view: "Although some historians of science applied for this position, there number was small and their quality did not compare well with that of the applicants from history. This was unfortunate, since there was genuine openness in the department to the possibility of appointing a historian of American science or medicine. Also, the work of the HSTM-trained applicants was sometimes too narrowly focused, with insufficient attention to the broader cultural, social, and political context or relevance of science or medicine."

Other comments seemed to cluster in



The Singer Company polishing room, 1880. From John Scott, *Genius Rewarded*, or the Story of the Sewing Machine (1880). Courtesy of the Eleutherian Mills Historical Library.

two groups: remarks from those who were very pleased with the applicant pool and complaints from those who expressed disappointment over one or more aspects of it. Positive comments included the following: "Superior preparation by almost all applicants. A very impressive group"; "We were very pleased with the applicant pool"; "The quality of the applicants was so high that we were successful in securing approval to hire two candidates although we initially were given one position"; "A marvelous pool—we could happily have hired any of our short-listed (6) candidates"; and "We were very pleased with the size and high quality of the applicant pool."

Negative comments concerned both the quantity and the quality of the pool. One respondent lamented the fact that they had no female applicants and that few of the candidates had evidence of scholarly contributions in the field. Several returns noted that job seekers seemed to be applying for any and all job openings, even when they were not qualified—a remark that points to the distinction between the "applicant pool" and "total applications." For instance, one wrote: "The number of applicants who were truly well qualified for the position described, vis-à-vis field, was surprisingly small. A number of applicants were really in neighboring disciplines. However, virtually all candidates seemed very well qualified in other respects." Three commented on the small number of applicants. An additional three complained about the nature and perceived purpose of HSTM training. One said: "There seemed to be some narrowness of topics and a tendency to equate institutional history with history of science." Another urged "broader training of history of medicine students. Almost no candidate had any exposure to health science professionals nor understanding of clinical subject matters—too socially oriented." A third respondent said: "It was hard to find a good generalist who was willing to 'push paper' and do meaningful but tiresome 'grunt-work.'" Another added: "I needed (and will need for post-docs) candidates technically trained in physics with a sensitivity to institutional and general history. Unfortunately, such preparation is relatively rare." And a final one said that candidates would be stronger if they had a good background in "hands-on science" as well as history of science. The implication from these comments is that in Categories II and III HSTM was not viewed as sufficient preparation to meet

the primary need. There was a need either for a broader background or for more technical training, depending on the nature of the position advertised.

Three additional concerns surfaced as a result of the survey. First, one of the respondents who was contacted by phone expressed concern that candidates from a certain limited number of institutions, simply because of the prestige of the degree-granting universities, were given

preference in the selection process. The concern was that if this continues to be the case and if the practice is widespread, the "second-class" programs will be unable to place their graduates and will have to consider the ethics involved in admitting students to programs that are dead ends in terms of employment. A second problem relates to the advertising media

Continued on next page

Table II. HSTM the Secondary Area of Expertise

	JOB DESCRIPTION					APPLICANT POOL					SUCCESSFUL CANDIDATE	
	Fields ^a		Background ^b	Rank ^c	Advt ^d	Total	Degrees (PhD, ABD, other)			Fields (HSTM, Hist, not Hist)		Gender, degree & date, fields ^e
	Primary	HSTM					M	F	Min			
Permanent												
Am Soc Microbiology	Archiv	HS	—, broad	—	AHA, CHE, HSS	9	4	5	0	x, —, —	—, —, —	F, —, —, HSTM
Boyle Papers (Univ London)	Archiv	HS	PhD, —	Asst	HSS, BSHS	13	9	4	—	6, —, 7	8, 4, 1	M, BA 1979, Hist
Portland State	PS	HS, 17c-pres	PhD, —	Asst	AHA, HSS, PN	57	51	6	—	46, —, —	x, —, —	F, PhD 1985, HSTM
Rockefeller Arch Center	Archiv	HS	Not PhD, broad	Head	HSS, SHOT, OAH, SAA, MAR	27	16	11	c1	4, 1, 22	1, 14, 12	M, MA 1982, Hist (PhD cand, Hist)
Stockton State Coll	Ear mod Eur	HS, SocHM	PhD, —	Asst	AHA, CHE	25	20	5	0	e24, e1, —	—, —, —	F, PhD 1985, HSTM
Temporary												
NASA Hist Office	Writ	HT				Search canceled						
NASA Hist Office	Intl sci	HT, HS	PhD, broad pref	Contr	AHA, HSS, SHOT, Other ^{ff}	5	5	0	?	5, 0, 0	2, 0, 3	M, PhD pre-1970, Pol Sci
Smithsonian: NASM	OralH	HST	Not PhD, broad	GS-12	AHA, CHE, HSS, Sci	28	19	9	NA	13, 6, 9	x, x, x	F, MA 1983, US Hist
Smithsonian: NASM	Off skil	HST	Not PhD, not broad	GS-7	AHA, CHE, HSS, SHOT, Sci	34	—, —, —	—, —, —	—, —, —	4, —, —	—, x, —	M, MA 1987, AmStud

Table III. HSTM a Possible Area of Expertise

	JOB DESCRIPTION					APPLICANT POOL					SUCCESSFUL CANDIDATE	
	Fields ^a		Background ^b	Rank ^c	Advt ^d	Total	Degrees (PhD, ABD, other)			Fields (HSTM, Hist, not Hist)		Gender, degree & date, fields ^e
	Primary	Other					M	F	Min			
Permanent												
UCLA Biomed Library	Libr	HBio/M	Not PhD, broad	Assoc lib or lib	CHE, HSS, Wat, AAHM, MedLA	14	3	11	?	2, —, —	1, 1, —	F, MLS 1969, LibSci
Carnegie-Mellon Coll	Policy-relH	HS	PhD, broad	Open	AHA, CHE	87	71	16	?	80, 7, 0	—, —, —	M, PhD 1973, Hist F, PhD 1984, Soc ^g M, PhD 1983, Hist
Charleston Edison Papers	Ear mod Eur	HS	PhD, broad	Asst	AHA, CHE	—	—, —, —	—, —, —	—, —, —	—, —, —	—, —, —	F, PhD 1986, Hist
Edison Papers	Edit	HST	PhD, broad	Asst ed, asst prof	CHE, Other ^{ff}	16	9	7	?	12, 2, 2	2, 12, 2	M, MA 1982, Hist
Edison Papers	Edit	HST	Not PhD, broad	Inst, res assoc	CHE, Other ^{ff}	19	16	3	?	6, 4, 9	3, 15, 1	M, ABD, Hist
Edison Papers	Edit	HST	PhD pref, —	Inst, res assoc	CHE, Other ^{ff}	19	14	5	?	9, 5, 5	0, 9, 10	M, ABD, Hist
Dept Energy	Writ	20c AmHST	PhD pref, —	GS-11, 12, 13	HSS, SHOT, Other ^{ff}	e100	e75, e25, ?	e75, e13, e12	e75, e13, e12	e5, e95, —	—, —, —	Continuing decision
Georgia Inst Technology	Mod EurH	HT	PhD, broad	Asst	AHA, CHE	94	86	8	4	—, —, —	—, —, —	F, ABD, HSTM ^g M, PhD 1980, HSTM ^g M, PhD 1987, HSTM ^g
Univ Iowa	AmH (intel)	HSM	Not PhD, broad	Asst	AHA, CHE, HSS	88	64	22	—	51, 30, 7	13, 58, 12	M, PhD —, Hist
New Jersey Inst Technology	Admin	HST	PhD, broad	Prof	CHE, SHOT	36	34	2	2	36, 1, 0	0, 1, ?	M, PhD 1963, Hist
Rensselaer Polytechnic Institute	Mod Eur	HST	PhD, broad	Asst & full	AHA, CHE, HSS, SHOT	140+	123	25	5	140, 8, —	0, 80, 68	M, PhD 1986, Hist ^g F, PhD 1985, Soc ^g M, ABD, AmStud
Rocketteller Arch Center	Arch	H	PhD, broad	Asst to direc	HSS, SHOT, SAA, OAH	12	8	4	0	7, 2, 3	3, 5, 4	M, ABD, AmStud
Sarah Lawrence	SocS	HST	PhD, broad	Reg fac	HSS, SHOT, AWS, 4S, Sci, BS	28	18	10	2	21, 5, 2	6, 6, 16	M, PhD 1987, Pol Sci w/HS
Science												
Science	Edit, writ	HSTM	Not PhD, broad	—	CHE, HSS, NYT, Sci, WashP, Nat	180	0 ^g	4	0	—, —, —	—, —, —	F, MS —, Psych F, BA —, Engl Lit
Siena Heights Coll	EurH	HST	PhD, broad	Asst, assoc		Refused to respond						
Smithsonian: NASM	Admin	HST	PhD pref, broad	Direct	CHE, HSS, SHOT, AA Sci, Other ^{ff}	e80	e75, e5, ?	e40, 0, e40	e32, e2, e46	—, —, —	—, —, —	M, PhD mid 1950s, —
Swarthmore Texas A & M	MedievH Open	HSTM HSTM	PhD, —	Junior Open	AHA, CHE	123	79	44	?	82, 41, 0	—, —, —	M, PhD 1987, Hist No one hired
Virginia Polytechnic Univ	Admin	HSTM	PhD, not broad	Asst	AHA, CHE	48	31	17	?	39, 6, 3	—, —, —	F, PhD 1987, Hist
Washington Univ	AmH	HT or environH	PhD, broad	Asst	AHA, CHE	21	14	7	0	21, 0, 0	—, x, —	M, PhD —, Hist
Washington School Med	Admin	HM	PhD, broad	Prof & chair	CHE	23	22	1	—	x, —, —	—, —, x	M, PhD —, Ethics
Temporary												
Caltech	PS	HSTM	PhD, broad	Postdoc	CHE	—	—, —, —	—, —, —	—, —, —	—, 0, 0	—, 0, —	F, PhD 1986, PS
Smithsonian	Archiv rarch	20c HST	Not PhD, not broad	GS-7	AHA, CHE, HSS, SHOT, Sci, WashP, Other ^{ff}	e35	e20, e15, e3	e5, 4, —	—, —, —	—, x, —	—, x, —	M, MA 1987, Hist

SURVEY—continued

utilized by the institutions. Of the 57 positions for which data are available, 22 (38.5%) were *not* advertised in the *HSS Newsletter*. HSS should undertake immediately to determine why institutions that are advertising jobs for people with HSTM backgrounds fail to place ads in an obvious source. In the meantime, those seeking employment should be alerted to the fact that many positions can be found in *AHA Perspectives* and the *Chronicle of Higher Education*. Finally, the inability of respondents to provide requested data seems to stem from changes in the screening and hiring process in the past few

years. One respondent suggested that the survey should be sent when the ad appears "so as to make easier tabulation of appropriate data. It's too time-consuming to do it this way." Several others indicated that no data are kept on anyone not making the short list and that they would have had to receive the survey much earlier to provide the information requested. Future surveys therefore should be sent as soon as job openings appear, although this will increase the problem of follow-up. If that does not work, HSS will have to decide if all the data are needed and what form requests for them should take in order to receive complete results and to make the task easier for the respondents.

Hopkins Univ.): the development of infrared astronomy. Kevin James Crisman (Univ. Pennsylvania): naval architecture and shipbuilding on the Great Lakes, 1812–1815. Emil Edward Friberg, Jr. (Univ. North Carolina at Chapel Hill): the federal government and the history of the United States computer industry. Dean Andrew Herrin (Univ. Delaware): the social history of coal development in southwest Virginia. Joni Louise Kinsey (Univ. Washington): creating a sense of place: Thomas Moran and the surveying of the American West. Alan Kraut (Cornell Univ.): germs, genes, and the immigrant menace, 1880–1940. Jane Morley (Univ. Pennsylvania): Frank Bunker Gilbreth (1868–1925): inventor, building contractor, and industrial consultant. Michael O'Malley (Univ. California at Berkeley): popular conceptions of time in America, 1850–1920. Steven Reber (MIT): a comparative study of ceramics in manufactories in France and Britain during the eighteenth century. Eric Schatzberg (Univ. Pennsylvania): Sikorsky seaplanes as a case study in the design of aircraft structures. Julie Weiss (Brown Univ.): the popularization of psychoanalytic definitions of womanhood and the transformation of American culture.

History Associates Incorporated of Rockville, Maryland, has received a \$1.7 million two-year contract, with three option years, from the U.S. Department of Energy, to prepare selected analytical studies on topics relating to arms control, weapons testing, treaty verification technology, and nuclear disarmament. The firm will continue to manage the computerized archives of the Department's Office of International Security Affairs; it will assist the DOE Office of Classification in developing a computerized retrieval system and review historical documents for classified and other controlled information. HAI historians will also locate and analyze additional historical records for the litigation support debates it created and maintains for the Office of General Counsel.

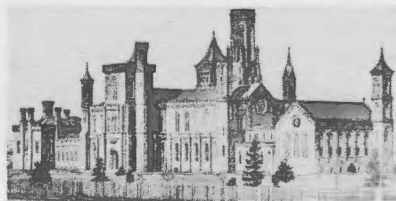
Since 1981 History Associates Incorporated has provided a broad range of historical, archival, records management, and litigation support services across the nation. In 1986 *Inc.* magazine listed History Associates as one of the 500 fastest-growing small private companies in America. For further information, contact Philip L. Cantelon at the Historic Montrose School, 5721 Randolph Road, Rockville, MD 20852; (301) 770-1170.

Recent Grants, Fellowships & Contracts

News of the following grants and fellowships, recently awarded by the **National Endowment for the Humanities**, will interest readers of the *Newsletter*. All awards are made for amounts up to the indicated sum.

Robert C. Bannister (Swarthmore College): women and the social sciences in America, 1920–1960; \$27,500. Stephen G. Brush (Univ. Maryland at College Park): development of the modern scientific world view; \$71,658. William E. Carroll (Cornell College, Iowa): Galileo: religion and science; \$63,166. Carol C. Donley (Hiram College): for an institute on medicine and the humanities; \$125,620. William W. Dunham (Ohio State Univ.): the great theorems of mathematics in historical context; \$50,573. Daniel E. Flage (Univ. Texas at Austin): Hume's theory of mind; \$27,500. Sander L. Gilman (Cornell Univ.): humanities and medicine; \$74,628. Jan E. Goldstein (Univ. Chicago): the postrevolutionary self: competing psychologies in France, 1790–1850; \$27,500. Reese V. Jenkins (Rutgers Univ.): for a documentary on Thomas Edison; \$25,000. Lynn S. Joy (Vanderbilt Univ.): the rival roles of humanism and epistemology in creating the seventeenth-century mechanistic conception of nature; \$27,500. Philip S. Kitcher (Univ. California at San Diego): progress, rationality, and the growth of science; \$27,500. Deborah G. Mayo (Virginia Polytechnic Institute): philosophy of statistics and the rationality of experimental science; \$27,500. Robert A. McDermott

(Sarah Lawrence College): William James's *Varieties of Religious Experience*; \$55,057. Henry R. Mendell (Barnard College): Aristotle's philosophy of mathematics; \$27,500. Everett T. Mendelsohn (Harvard Univ.): the social history of science; \$77,599. John E. Murdoch (Harvard Univ.): Aristotle's natural philosophy; \$79,205. Hilary Putnam (Harvard Univ.): for a conference on the thought and works of Charles Sanders Peirce; \$35,000. Michael D. Resnik (Univ. North Carolina at Chapel Hill): Frege and the philosophy of mathematics; \$66,979. Cary I. Sneider (Univ. California at Berkeley): to plan an exhibition, catalogue, and planetarium presentation that examine the role of scientific and technological knowledge in exploration by focusing on the voyages of Columbus; \$50,000. Wendy M. Watson (Mount Holyoke College): to plan a traveling exhibition, catalogue, and interpretive programs that examine the impact of technological change on French culture at the time of the Universal Expositions of 1889 and 1900; \$21,975.



Among the fellowships recently awarded by the **Smithsonian Institution** in its various programs are the following.
Ronald Stephen Brashear (Johns

Smithsonian Institution,
negative 36881

CALLS FOR PAPERS

On behalf of the **Albatrosses**, the aerospace history interest group of the **Society for the History of Technology**, Joseph N. Tatarewicz, Associate Curator, Space Science and Exploration Department, National Air and Space Museum, Smithsonian Institution, Washington, DC 20560; (202) 357-1660, is organizing a session for the fall 1988 SHOT meeting at the Hagley Museum on "Nontechnical Factors in Aerospace Engineering Design."

The International Committee for the History of Medieval and Byzantine Science and the Walter Burley Society will

cosponsor a session on Walter Burley's natural philosophy at the 24th **International Congress on Medieval Studies**, to be held in Kalamazoo in 1989. Send abstracts or papers (maximum 11 pages) and short curriculum vitae to André Goddu, Program of Liberal Studies, University of Notre Dame, Notre Dame, Indiana 46556 and to Michael Tkacz, International Committee for the History of Medieval and Byzantine Science, P.O. Box 124, Cardinal Station, Washington, DC 20064. The Walter Burley Society will sponsor a session on Walter Burley's logic at the same congress. The society is interested in both editing projects and analyses of texts. Send abstracts or papers (maximum 11

A few spots remain on the program of the 1988 **History of Science Society Annual Meeting** for works-in-progress papers. Please send paper topic and a brief abstract immediately to Shirley A. Roe, University of Connecticut, Department of History, U-103, Storrs, CT 06268.

pages) and a short curriculum vitae to André Goddu, at the address noted above. The deadline for *both* calls is **1 October 1988**.

The Fifteenth Annual **St. Louis Conference on Manuscript Studies** will be held

Continued on next page

VIIIth International Congress of History of Science

If you have yet to receive the Congress's **first circular**, please request a copy from the Congress Office (at the address noted below) **as soon as possible**. Copies are also available from the Executive Secretary, Michael M. Sokal, 35 Dean Street, Worcester, MA 01609.

The Congress will be held under the auspices of the International Union for the History and Philosophy of Science, Division of History of Science (IUHPS/DHS), in both Hamburg and Munich, Federal Republic of Germany (FRG), 1-9 August 1989. The theme of the Congress, "Science and Political Order; Wissenschaft und Staat," is to embrace all aspects of the historical relationships between science (including technology and medicine) and the manifestations of secular and nonsecular power in all its various forms—political, ecclesiastical, and juridical. Theories about state and society will also be dealt with. Examples of themes to be discussed are science at courts, academies, universities, and public research institutions; the influence upon or control of science and technology through state scientific and professional organizations; the inevitable public imperatives arising from important scientific and technical innovations; and the consequences of legislation (whether influenced by ecclesiastical, ideological, racial, social, economical, technical, or other motives) on the development of science, medicine, and technology.

The scheduled program will include Plenary Sessions, organized by associa-

tions for the history of science and technology; Symposia, organized by the various IUHPS/DHS commissions, involving lectures and discussion sessions devoted to special themes; Scientific Sections, for presentation of short papers (which will, as usual, be grouped according to themes or periods); Poster Sessions, intended as an alternative to the Scientific Sections, which have been heavily overburdened in the past; Poster Presentations, to be provided by national committees and commissions of the IUHPS/DHS; Business and General Meetings of the governing bodies, commissions, and committees of the IUHPS/DHS; Tours and Excursions; and opportunities for informal exchange of ideas and experience (get-togethers, receptions, etc.).

The Congress will open on 1 August 1989 at the Congress Centrum in Hamburg, travel to Munich on 6 August, and reconvene at the Deutsches Museum in Munich on 7 August. It will close on 9 August 1989. Its official languages will be English, French, German, and Russian.

The Congress's **first circular** was distributed earlier this year. The **second circular** and the registration form for the Congress will be distributed in the spring of 1988. Individuals may register for a paper, a discussion contribution, or a contribution to the Poster Sessions until **31 October 1988**. Abstracts and outlines of contributions to Poster Sessions must be submitted by **31 January 1989**, and participants must register by this date in order to bene-

fit from the reduced registration fee.

Registration fees: for participants who register and pay by 31 January 1989, DM 350; for participants who register and pay after 31 January 1989, DM 450; for students who register and pay by 31 January 1989, DM 175; for students who register and pay after 31 January 1989, DM 225; for accompanying persons, DM 100.

Accommodations will be available at various hotels in Hamburg and Munich and may be booked when registering for the Congress, on the form supplied with the second circular.

The **address** of the Congress Office is ICHS Congress 1989, CPO HANSER SERVICE, Postfach 1221, D-2000 Hamburg-Barbützel, FRG; telephone: (40) 670 60 51; telefax: (40) 670 32 83; telex: 2 165 737 cpod. The Chairman of the Program Committee is Prof. Dr. Fritz Krafft, Johannes-Gutenberg-Universität, Fachbereich Mathematik, Staudinger Weg 9, D-6500 Mainz 1, FRG; telephone: (6131) 39 28 37. The Chairman of the Organizing Committee is Prof. Dr. Christoph J. Scriba, Universität Hamburg, Institut für Geschichte der Naturwissenschaften, Mathematik und Technik, Bundesstrasse 55, D-2000 Hamburg 13, FRG; telephone: (40) 41 23 20 94; telex: 2 165 737 cpod.

ICHHS
Hamburg · 1989 · München

CALL FOR PAPERS—continued

at St. Louis University on 14–15 October 1988. The Conference Committee invites papers dealing with one of the four following aspects of the manuscript: codicology, illumination, paleography, and texts. Those wishing to participate should request additional information from the Conference Committee, Vatican Film Library, Pius XII Memorial Library, 3650 Lindell Blvd., St. Louis, MO 63108.

On the occasion of the two hundredth anniversary of the French Revolution, the **Society for Philosophy and Technology** announces its Fifth Biennial International Conference, to be held at the University of Bordeaux, France, in June 1989 (dates to be announced). The Society invites papers on the theme "Technology and Democracy." Topics may focus upon any aspect of modern technology's significance for democratic theory, democratic citizenship, revolutionary movements, the quality of public life, and possibilities for democratic control of technology itself. For further information about the program, contact Langdon Winner, Department of Science and Technology Studies, Rensselaer Polytechnic Institute, Troy, NY 12180-3590. For information about the Society, contact Stanley Carpenter, Department of Social Sciences, Georgia Institute of Technology, Atlanta, GA 30332.

The Austrian Ludwig Wittgenstein Society announces the **Thirteenth International Wittgenstein Symposium**, to be held in Kirchberg/Wechsel, Austria, near Vienna, on 14–21 August 1988. The symposium's theme will be Philosophy of the Natural Sciences, and presentations need not be related to Wittgenstein's philosophy. Scholars wishing to speak at the symposium should request an abstract style sheet from the Austrian Ludwig Wittgenstein Society, A-2880 Kirchberg/Wechsel, Markt 2, Austria; telephone 02641/2280 or 2557. The deadline for receipt of abstracts is **31 May 1988**. Official languages will be English and German. Those planning to attend the conference should contact A. Hübner at the above address for further information. The final date for registration is **30 June 1988**. For information in the USA and Canada, contact Philip Hugly, Department of Philosophy, University of Nebraska, Lincoln, NE 68588, USA; (402) 472-2425.

FOR BOOKS & ARTICLES

The Journal of Computing and Society, a new academic journal on the social impact of computing technology and computerization, will publish its premiere issue late in 1988. This first issue will address the question, "Has There Been a Computer Revolution?" Papers on this topic may be submitted in quadruplicate to Gary Chapman, editor, *The Journal of Computing and Society*, P.O. Box 717, Palo Alto, CA 94301.

The General Editor of the JAI Press Annual Series **Research in Social Policy: Critical, Historical, and Contemporary Perspectives** is soliciting papers and detailed paper abstracts for future volumes. Papers should be no more than forty pages in length and paper abstracts should be at least four pages. Submission deadline is **30 June 1988**. Send papers and abstracts to John H. Stanfield II, General Editor, Research in Social Policy, Department of Sociology, P.O. Box 1965, Yale Station, New Haven, CT 06520-1965.

CALLS FOR INFORMATION

The **American Association for the History of Medicine** is planning, in early 1989, to issue a new listing of current research being conducted on topics in the history of medicine and related sciences, including dissertations. Individuals and department heads desiring to have their projects and those of their students listed are urged to send the following information: (1) name; (2) institution or mailing address; (3) title of substantial research topics; and (4) estimated completion date. Send communications before **15 November 1988** to Charles G. Roland, 3N10-HSC, McMaster University, Hamilton, Ontario, Canada L8N 3Z5.

With the sponsorship of the Institution of Electrical Engineers, Frank A. J. L. James of the Royal Institution has begun preparing an edition of *The Complete Correspondence of Michael Faraday (1791–1867)*. This edition will be based largely on the extensive collections of Faraday letters in the Archives of the Royal Institution and of the Institute of Electrical Engineers. The editor also seeks the support of librarians, archivists, collectors, scholars, antiquarian booksellers, and others aware (or in possession) of other letters both to and from Faraday. They are urged

BSHS–HSS Anglo-American Conference, Manchester, July 1988

Individuals planning to attend this conference who have not yet registered for it are urged to do so as **soon as possible**. North American participants should register through the Office of the HSS Executive Secretary. Please see the registration forms that appeared in the January issue of the *Newsletter*.

Late in May, those who have registered will be sent bound copies of the papers that will be discussed during the morning sessions, as well as abstracts of the papers that will be given in the afternoon symposia. Individuals who are *not* planning to attend the conference may also obtain copies of these papers and abstracts. Please send \$20, payable to the *History of Science Society*, before **1 May** to Ronald L. Numbers, Department of the History of Science, University of Wisconsin, 1300 University Avenue, Madison, WI 53706.

One of the morning sessions on Wednesday, 13 July 1988, will be devoted to Anglo-American medicine in the twentieth century, and discussion will revolve around Charles E. Rosenberg's new book, *The Care of Strangers: The Rise of America's Hospital System*. Participants may purchase copies of this book at a 20% discount directly from its publisher. Please send \$18.36 plus postage (\$1.50 in the United States; \$5.00 foreign) directly to Department MAN, Basic Books, 10 East 53rd Street, New York, NY 10022.

to contact him at RICHST, Royal Institution, 21 Albemarle Street, London, W1X 4BS, England.

ARCHIVES

The **papers of Charlotte Friend** have been deposited in the Archives of the Mount Sinai Medical Center in New York. Dr. Friend, a noted cancer researcher, died in January 1987, while on the staff of Mount Sinai.

The **University of Pittsburgh Library System** has been selected by the American Institute of Physics as a library of deposit for the Archives for the History of Quantum Physics.

MEETINGS & LECTURES

Through its Thematic Meetings Program, the History of Science Society is cosponsoring two future meetings. A conference, **Metaphysics and Classification of the Sciences in 1637**, celebrating the 350th anniversary of Descartes's *Discourse on Method*, will be held at San Jose State University, 15–17 April 1988; those interested in attending should contact Stephen Voss, Department of Philosophy, San Jose State University, San Jose, CA 95192-0020; (408) 277-2177. A symposium, **History of Modern Mathematics**, will be held at Vassar College, Poughkeepsie, NY, 13–17 June 1988; those interested in attending should contact David E. Rowe, Department of Mathematics, Pace University, Pleasantville, NY 10570; (914) 741-3745.

The 1989 annual meeting of the **American Association for the History of Medicine** will be held on 27–30 April 1989 in Birmingham, Alabama. Further information will appear in the next issue of the *HSS Newsletter* and is available from Judith Walzer Leavitt, Department of History of Medicine, University of Wisconsin, 1415 Medical Science Center, Madison, WI 53706.

The **Australian Academy of the Humanities** announces an international conference, "Terra Australis to Australia," to be held in August 1988. It marks the Australian Bicentenary and will consider many important aspects of Australia's cultural history. For information and registration forms contact Terra Australis to Australia, ACTS, GPO Box 220, Canberra ACT 2601, Australia; telephone (062) 49 8015.

Spring meetings of the **Bar-Hillel Colloquium for the History, Philosophy, and Sociology of Science, 1987–1988**, will include "Can 'Literature and Science' Become a Valid Subject?" George S. Rousseau, University of California, Los Angeles; Tomas Kulka, Hebrew University of Jerusalem, commentator; Jerusalem, Thursday, 12 May. "50 Years of the Merton Thesis," annual international workshop, organized by the Institute for the History and Philosophy of Science and Ideas, Tel-Aviv University and the Van Leer Jerusalem Institute; Tel-Aviv and Jerusalem, Monday–Thursday, 16–19 May.

"Choice and Preference," Richard C. Jeffrey, Princeton University; Maya Bar-Hillel, Hebrew University of Jerusalem, commentator; Jerusalem, Thursday, 2 June. "The Interaction of Science and World View in Modern Synthesis," John C. Greene, University of Connecticut; Eva Jablonka, Hebrew University of Jerusalem, commentator; Tel-Aviv, Tuesday, 14 June. For further information, contact the colloquium coordinator, Edna Ullmann-Margalit, P.O.B. 4070, Jerusalem, 91040, Israel.

A previous issue of the *Newsletter* published an announcement of the conference on **R. G. Boscovich, His Life and Scientific Work** to be held at the Istituto della Enciclopedia Italiana, Rome. The dates given previously have been changed to 23–27 May 1988. There will be no conference fee, but those who are interested in attending are asked to get in touch with Piers Bursill-Hall, at the Istituto della Enciclopedia Italiana, Piazza Pagancia 4, Rome 00186, Italy (fax 39.6.6731.2175; telex 623620 Italen I), or at the Department of Pure Mathematics and Mathematical Statistics, University of Cambridge, 16 Mill Lane, Cambridge CB2 1SB, England (fax 44.223.334748; telex 81240 Camspl G).

The **Columbia History of Science Group** will hold its annual meeting 29 April–1 May 1988. As is traditional, the meeting will take place at the Marine Research Laboratories of the University of Washing-

ton, in Friday Harbor, San Juan Island. Questions about the program should be directed to R. J. Morris, Department of General Science, Oregon State University, Corvallis, OR 97331; (503) 754-4151. Questions about access and accommodations should be directed to Keith Benson, Department of Medical History and Ethics, University of Washington, Seattle, WA 98195; (206) 543-5447.

In celebration of the bicentenary of the French Revolution, a **Condorcet Colloquium** will be held in Paris, 8–11 June 1988. For further information, contact P. Crepel or C. Gilain, "Colloque Condorcet," Equipe REHSEIS, Université Paris VII, 2 place Jussieu, 75251 Paris Cedex, France.

The **Tenth Annual J. Lloyd Eaton Conference on Science Fiction and Fantasy Literature** will focus on "Fights of Fancy: Armed Conflict in Science Fiction and Fantasy." It will be held on 15–17 April 1988 at the University of California, Riverside. For further information contact Eaton Conference, University Library, P.O. Box 5900, University of California, Riverside, CA 92517.

The second **International Conference on the History of General Relativity** will be held on the Luminy University campus, southeast of Marseilles, France, 20–23 September 1988. The conference will provide an excellent opportunity for historians, philosophers, and physicists specializing in the general theory of relativity to

Continued on next page



The 1911 Solvay Congress. Courtesy of the International Institute of Physics and the AIP Niels Bohr Library.

MEETINGS—continued

meet and to review recent contributions to the field. The main topics to be discussed include the emergence of the general theory of relativity, its early reception, the history of relativistic cosmology, and physical and philosophical interpretations of the general theory of relativity, the experimental history of general relativity, and the organizational history of the theory. Conference address: History of General Relativity, c/o J. Eisenstaedt, Laboratoire de Physique Théorique, Institut H. Poincaré, 11 rue P. et M. Curie, 75231 Paris Cedex 05; telephone 33 (1) 43 36 25 25 ext. 5100-3782.

A symposium on the **History of the Social Sciences** will be held 5–8 May at the Johns Hopkins University. Twelve scholars who attended the 1986 summer institute on the topic at the Center for Advanced Studies in the Behavioral Sciences will present papers on historiographic themes. For further information, contact JoAnn Brown, Department of History, Gilman

Hall, Johns Hopkins University, Baltimore, MD 21218; (301) 338-7575.

The Department of History of Science, Faculty of Letters, Istanbul University, and the Research Centre for Islamic History, Art, and Culture (IRCICA, Islamic Conference Organization) will jointly organize the **Third Symposium on the History of Science** in November 1988. This symposium will examine the introduction of modern means and techniques of transport and communication to the Ottoman State. Individuals interested in taking part in this program should contact Ekmeleddin Ihsanoglu, Head of the History of Science Department and Director General of the Research Centre for Islamic History, Art and Culture, 34459 Istanbul, Turkey; telephone (1) 520-7540/355.

Among the thirty-eight research conferences recently announced by the Division of Research Programs, National Endowment for the Humanities, is **Peirce and Contemporary Thought: The Charles S. Peirce Sesquicentennial International**

Congress, to be held at Harvard University, 6–9 September 1989. For further information, contact Hilary Putnam, Department of Philosophy, Harvard University, Emerson Hall, Cambridge, MA 02138; (617) 495-5501.

Genootschap voor de Geschiedenis der Geneeskunde, Wiskunde en Natuurkunde en Techniek (GeWiNa)—i.e., the **Society for the History of Medicine, Mathematics, Natural Sciences and Technology** of the Netherlands— will examine "The Two Cultures and the Unity of Knowledge" at a symposium to be held on 4 June 1988. For further information contact J. W. Van Spronsen, Secretary of GeWiNa, Veenendaalkade 463, 2547 AL Den Haag (The Hague, The Netherlands). Dr. Van Spronsen also has information on the **Eleventh Benelux Congress for the History of Natural Sciences**, which will be held in Brugge, Belgium, 28–30 April 1989. Its theme will be "The History of Seagoing and Maritime Sciences, from ca. 1830 and on the North Sea."

Summer Seminars & Institutes

Among the **1988 Institutes for College and University Faculty** being offered under the auspices of the **National Endowment for the Humanities**, the following three are of particular interest to readers of the *HSS Newsletter*. For further information about each, contact the individual listed.

Early Modern Philosophy, Brown

University, 27 June–5 August; contact Jules Coleman, Council for Philosophical Studies, Yale Law School, New Haven, CT 06520; (203) 432-4842.

Aristotle's Metaphysics, Biology, and

Ethics, University of New Hampshire, 20 June–29 July; contact Allan Gotthelf, Department of Philosophy, Trenton State College, Trenton, NJ 08650; (609) 771-2438.

Interpretation in the Sciences and the

Humanities, University of California, Santa Cruz, 21 June–29 July; contact David C. Hoy, Department of Philosophy, Kresge College, University of California, Santa Cruz, CA 95064; (408) 429-2781.

The **American Antiquarian Society** will conduct the third in its series of summer

seminars in the interdisciplinary field of book history on 18–28 June 1988 in Worcester, Massachusetts. Sponsored through the Society's Program in the History of the Book in American Culture, the 1988 seminar will focus on methods of inquiry, especially literary theory and social history, in examining the theme "The Politics of Reading, Writing, and Publishing in Nineteenth-Century America." For further details, including information on fees and financial aid, and application forms, contact John B. Hench, Associate Director for Research and Publication, American Antiquarian Society, 185 Salisbury Street, Worcester, MA 01609; (617) 752-5813 or (617) 755-5221.

The Oxford Science Studies Summer Seminar and the CIBA Foundation announce an **International Conference on Reporting Science**, to be held at Rewley House, Oxford, 12–16 July 1988. For further information and application forms, contact J. R. Durant, Department for External Studies, Rewley House, 1 Wellington Square, Oxford, OX1 2JA, UK.



"Present State of the Temple of Serapis at Pozzuoli." Frontispiece to Charles Lyell, *Principles of Geology*, Vol. 1 (London, 1830). See *Isis*, 1970, 61:4–33.

Related Societies & Programs

The **American Association for the Advancement of Science** has expanded the Carnegie Forum on Education and the Economy and has established the **AAAS Project on Liberal Education and the Sciences** to study science education for college students in all fields. The project hopes to find ways of teaching science to nonscientists, or perhaps to design a common core program suitable for all students, including prospective teachers and both science and nonscience majors. One apparent task is to determine what constitutes a liberal-arts science education, either in terms of content or goals. At the conclusion of the study (now scheduled to end early in 1989), the AAAS hopes to recommend specific curricular changes on the college level. Suggestions for the AAAS project may be communicated through the History of Science Society or directly to AAAS study group members: Peter Machamer, Department of History and Philosophy of Science, University of Pittsburgh, 223 Loeffler Building, Pittsburgh, PA 15260; or Norriss Hetherington, Office for the History of Science and Technology, University of California, 470 Stephens Hall, Berkeley, CA 94720. The group would especially like to receive information on successful programs that might serve as exemplars in the AAAS report.

The **American Historical Association** has adopted and published a statement, "**Standards of Professional Conduct**," developed by the Professional Division. Enforcement guidelines are now under consideration. Copies of the statement, and a comparable statement on plagiarism, may be obtained from James B. Gardner, Deputy Executive Director, AHA, 400 A Street SE, Washington, DC 20003.

The **American Institute of Physics Center for History of Physics** will shortly begin a major project studying the complex issues facing the documentation of the history of multi-institutional collaborations in physics and allied sciences. During the postwar period, multi-institutional collaborations—for instance, an experiment run at a national laboratory by a team from a number of universities—have become increasingly important. But, despite the significance of these transitory "mini-institutions," little is known about how to document them and meaningful

records of such teams have not yet been secured for the use of historians, sociologists, and others studying the research process. The study will identify patterns of collaboration, define the scope of the documentation problems, field-test possible solutions, and recommend future actions. The center's staff will be joined in the work by archivists, historians of science and technology, and sociologists; distinguished scientists, administrators, and other specialists will serve as advisers.

The focus of the initial two years will be the field of high-energy physics. Preliminary plans for subsequent fields include space science and geophysics. The long-range study will increasingly explore the applications of project findings to other areas of science and technology and the development of policies and guidelines

in both the archival and science policy areas to improve future documentation.

Sufficient outside funding is in hand to initiate work during the summer. The National Historical Publications and Records Commission has committed partial support and the National Science Foundation has formally stated its long-term interest in the entire study. For further information, contact Joan N. Warnow, AIP Center for History of Physics, 335 East 45th Street, New York, NY 10017. See also the job announcement for the Project Historian under "Positions."

The **Australasian Association for the History, Philosophy and Social Studies of Science (AAHPSSS)** announces that from May 1988 its journal, *Metascience*, will be published as two issues per year rather

Continued on next page

GRADUATE PROGRAMS

In celebration of its centennial year, the **University of Oklahoma** has inaugurated a program of Centennial Graduate Assistantships, and the Department of the History of Science will be able to offer one for the 1988-1989 academic year. This award carries a stipend in the range of \$10,000-\$12,000 for nine months. The recipient's tuition and fees will also be paid, and the assistantship is potentially renewable for four years.

Founded in 1954, the program in the history of science at the University of Oklahoma is one of the oldest in the United States. Programs of study are offered leading to the degrees of Master of Arts and Doctor of Philosophy. Graduate students have complete access to the 75,000-volume History of Science Collec-

tions, one of the best in the United States. For details, contact the Chair, Department of the History of Science, University of Oklahoma, 601 Elm, Room 622, Norman, OK 73019; (405) 325-2213.

Northwestern University announces a program of graduate study and postdoctoral research designed to train scholars who wish to specialize in the history or philosophy of science or both. The university's faculty in these areas includes, for history of science, Laurie Brown (Physics), Betty Jo Dobbs, and David Joravsky; and for philosophy of science, Arthur Fine, David Hull, and Stephen Toulmin. An additional historian and philosopher are to be appointed. For additional information, contact Program in History and Philosophy of Science, c/o Department of Philosophy, Northwestern University, Evanston, IL 60208; (312) 491-3656.

Dissertations Completed

James Rodger Fleming, "Meteorology in America, 1814-1874: Theoretical, Observational, and Institutional Horizons." 1988. Princeton University.

Bruce Lewenstein, "Public Understanding of Science in America, 1945-1965." 1987. University of Pennsylvania.

Thomas J. Misa, "Science, Technology, and Industrial Structure: Steelmaking in America, 1870-1925." 1987. University of Pennsylvania.

The **School of History and Philosophy of Science at the University of New South Wales** in Sydney, Australia, has changed its name to the School of Science and Technology Studies, effective 1 January 1988. This name change is intended to reflect developments over the last decade which have broadened the school's range of activities to include not only the history and philosophy of science but also the history and philosophy of technology, social studies of science and technology, the study of science and technology policy, and the study of cognitive science.

RELATED SOCIETIES—continued

than as a single annual volume. New members joining AAHPSSS during 1988 will receive a subscription to *Metascience*, volume 6 (1988), as well as a copy of volume 5 (1987) with the following contents: Richard Yeo, *William Whewell on the History of Science*; David Oldroyd, *The Magnum Opus of the Darwin Industry*; Susan Wright, *The New Military Dimension of Biotechnology*; Arie Rip, *The Challenge to Science Policy Studies*; John Andreae, *Design of a Conscious Robot*; and thirty pages of book reviews. Members of the History of Science Society are entitled to a 10% reduction of AAHPSSS annual membership fees, which are normally \$25 for individuals and \$30 for institutions. HSS members wishing to join AAHPSSS should send \$22.50 (Australian or U.S. dollars; personal checks accepted) to AAHPSSS, c/o School of Science & Technology Studies, University of New South Wales, Kensington, N.S.W., Australia 2033.

The General Editor and the Editorial Board of the **American Historical Association's** forthcoming *Guide to Historical Literature* are conducting a search for approximately fifty historians willing and able to supervise the preparation of the various bibliographies that will make up the *Guide*. One of the categories is "Science and Technology," for which the section editor will ideally be a scholar familiar with both fields. According to John Higham, the section editors will need to contribute only a fraction of their time, but they will be the backbone of the enterprise. Each will determine the organization of his or her section, develop a list of essential entries, appoint and advise contributors to that section, and write a brief introduction. Although the compilation of the *Guide* is expected to take four years, most of the work of the section editors will be concentrated in 1988–1990. The AHA expects to pay suitable honoraria to section editors and to contributors as well. Offers to serve as editor of a specific section should include a brief statement of the special bibliographic problems or needs of the field in question. Please also submit a curriculum vitae and two short published book reviews, all addressed to John Higham, American Historical Association, 400 A Street, SE, Washington, DC 20003. Appointments will be made by the General Editor in July or August 1988.

Awards, Appointments & Honors

Peter J. Bowler has been appointed to a Readership in the Department of History and Philosophy of Science, Queen's University of Belfast, Northern Ireland.

Thomas Broman and **Lynn Nyhart** have been appointed tenure-track assistant professors in the history of biology at the Department of the History of Science at the University of Wisconsin–Madison.

John Angus Campbell of the University of Washington has been honored by the Speech Communication Association for "Scientific Revolution and the Grammar of Culture: The Case of Darwin's Origin," *Quarterly Journal of Speech*, November 1986, which was judged an outstanding monograph in speech communication.

Alfred W. Crosby of the University of Texas at Austin has been honored by Phi Beta Kappa for *Ecological Imperialism: The Biological Expansion of Europe, 900–1900* (Cambridge Univ. Press, 1986), which was judged an outstanding study of the intellectual and cultural condition of humankind.

Stephen J. Dick has been appointed the first Historian of the U.S. Naval Observatory, where he will undertake a full program of archival collection, oral histories, research, and writing.

Engines of Change, an exhibit at the National Museum of American History, Smithsonian Institution, has been presented the first **Dibner Award for Excellence in Exhibits of the History of Technology and Culture** by the Society for the History of Technology. The exhibit was curated by **Brooke Hindle** and **Steven Lubar** and designed by Constantine Raitzky, with William Withuhn serving as project manager. **Streamlining America** at the Henry Ford Museum and **Made in Maine** at the Maine State Museum received Honorable Mentions.

Gerald I. Geison of Princeton University was recently appointed National Library of Medicine Visiting Historical Scholar.

Mary Louise Gleason has been elected a Fellow of the New York Academy of Sciences.

Judith V. Grabiner has been appointed a Sigma Xi National Lecturer for 1988 and 1989. **Mott T. Greene** continues as Sigma Xi National Lecturer for 1988.

Thomas Parke Hughes, Mellon Professor of History and Sociology of Science at the University of Pennsylvania, has been elected to the Royal Swedish Academy of Engineering Sciences.

Prize Competitions

The Society for the History of Technology is now accepting nominations for the 1988 **Dibner Award for Excellence in Exhibits of the History of Technology and Culture**. Made possible by generous contributions from Bern Dibner and from the Charles Edison Fund, the award was established by SHOT to encourage the production of quality museum exhibits that interpret the history of technology, industry, and engineering to the general public. Exhibits that are less than two years old are eligible for the award, and nominations should be made within a year of the show's opening. Nominations for the 1988 award will close on **1 July 1988**. Anyone, including those responsible for its creation, may nominate an exhibit. Submissions and inquiries should be directed to

Bernard Finn, National Museum of American History, Room 5025, Smithsonian Institution, Washington, DC 20560. The Dibner Award is sponsored by the SHOT Technology Museum Special Interest Group.

The National Women's Studies Association announces the creation of the **Illinois–NWSA Book Award**, to be presented annually for the best book-length manuscript in Women's Studies. Applications should be sent to Caryn McTighe Musil, NWSA National Director, National Women's Studies Association, University of Maryland, College Park, MD 20742; (301) 454-3757.

Nominations are invited for the 1988 **Lawrence Memorial Award** for doctoral dissertation research in systematic botany

David P. Miller has been appointed Head of the School of Science and Technology Studies at the University of New South Wales in Sydney, Australia, effective 1 March 1988.

Arthur L. Norberg has been appointed chair of the NASA History Advisory Committee, effective 1 January 1988.

Michael Shank has been appointed a tenure-track assistant professor in the history of early science at the Department of the History of Science at the University of Wisconsin-Madison.

Betty Smocovitis has been appointed Assistant Professor of History of Science in the Department of History at the University of Florida, effective August 1988.

Jeffrey L. Sturchio joined the staff of the AT&T Bell Laboratories Archives on 1 February 1988. He will continue as Book Review Editor of *Isis*.

J. W. Van Spronsen, Secretary of GeWiNa, the Society for the History of Medicine, Mathematics, Natural Sciences and Technology of the Netherlands, and chairman of the Commission for the History of Chemistry of the Royal Netherlands Chemical Society, has been nominated as chairman of the Working Party for the History of Chemistry of the Federation of European Chemical Societies.

or horticulture, or the history of the plant sciences. Major professors may nominate their students by submitting letters of nomination and supporting materials, including seconding letters, no later than **1 May 1988** to R. W. Kiger, Hunt Institute, Carnegie-Mellon University, Pittsburgh, PA 15213; (412) 268-2434.

The **Social Science History Association** announces its annual President's Book Award of \$1,000, to be presented for the new manuscript that best exemplifies the goals of the Association's book series, **New Approaches to Social Science History**. The deadline for submissions is **31 May 1988**. For further information, please contact Stanley Engerman, Department of Economics, University of Rochester, 238 Harkness Hall, Rochester, NY 14627; (716) 275-3165.

PUBLICATIONS, ETC.

The *Business History Bulletin* is a new quarterly newsletter published by the Hagley Museum and Library. For more information contact Elizabeth Gray Kogen, Executive Administrator, Center for the History of Business, Technology, and Society, Hagley Museum and Library, P.O. Box 3630, Wilmington, DE 19807; (302) 658-2400.

Number 21 of *Cahiers d'Histoire et de Philosophie des Sciences*, a series directed by the French Society for the History of Science and Technology, has just been published. Edited by Ivor Grattan-Guinness, the volume makes available (in English) proceedings of a symposium devoted to the uses of history of mathematics in teaching mathematics, held in 1985 at the University of Toronto and sponsored by the International Commission on the History of Mathematics (ICHM) and the International Union for History and Philosophy of Science. The volume may be ordered, at a price of Fr 60 (plus Fr 20 postage) directly from Editeur Belin, Boite Postale 205, F-75278 Paris Cedex 06. By special arrangement with ICHM, readers in the Americas and the Pacific who wish to remit payment in U.S. dollars may receive a book directly from New York by sending a check for \$20 (including postage and handling, made payable to the International Commission on the History of Mathematics), to Christoph J. Scriba, ICHM, Institut für Geschichte der Naturwissenschaften, Mathematik und Technik, Bundesstrasse 55, D-2000 Hamburg 13, Federal Republic of Germany. Upon receipt of each check in Hamburg, each order will be forwarded by electronic mail to New York within 24 hours, and a copy will be posted immediately from New York.

Annual subscriptions to *Encuentro: A Columbian Quincentenary Bulletin* are available for \$12 from the Latin American Institute, University of New Mexico, Albuquerque, NM 87131.

A video presentation, *Evolution and Human Equity*, featuring Stephen Jay Gould of Harvard University, is available from Insight Video, 875 Main Street, Cambridge, MA 02139; (617) 354-7493.

With the financial support of eighteen professional societies in fields ranging

from dietetics to remote sensing, the Office of Scientific Freedom and Responsibility of the American Association for the Advancement of Science has begun publishing a quarterly newsletter, the *Professional Ethics Report*. The contributing societies are all part of the AAAS-affiliated Professional Societies Ethics Group, which serves as a forum for more than sixty representatives of societies, universities, and government agencies to discuss ethical issues. Copies of the newsletter, which is free, can be obtained by writing to the Office of Scientific Freedom and Responsibility, AAAS, 1333 H Street NW, Washington, DC 20005.

The Commission on Teaching the History of Science of the International Union of the History and Philosophy of Science, Division of the History of Science, now issues a circular called *TeaCom News*. Contributions addressing important issues involved in teaching history of science, and requests for placement on the circular's mailing list, should be addressed to Alistar M. Duncan, University of Technology, Loughborough, Leicestershire England LE11 3TU.

The first installment of a compilation of course material from an informal network of people teaching **Critical Studies of Biology** (or related courses) is now available, in return for a contribution to the second installment, or \$3. The informal network understands critical studies to include courses that focus on two particular topics: (1) social and political influences on science, as revealed through history and current social issues involving science; and (2) scientific subjects, reinterpreted as being shaped by social action and power. Please write to Peter Taylor, E.R.G., Bldg T-4, University of California, Berkeley, CA 94720, if you wish to contribute to or to receive future installments. Issues in teaching critical studies of biology will be the topic of one session at the next History, Philosophy and Social Studies of Biology conference, to be held in the summer of 1989 (venue still to be determined).

The Detroit Area Chapter of the Association for Women in Science, Inc., presents *Women Scientists and the Nobel Prize*, a commemorative calendar for 1988. This fourteen-month calendar contains artists' depictions of the fourteen women scientists who have received a Nobel Prize or

Continued on next page

Books Received by Isis December 1987– February 1988

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

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

PUBLICATIONS—continued

have been involved in the scientific research leading to the Nobel Prize. Calendars are available for \$6.95 each plus \$1 postage; make checks payable to AWIS-DAC. Send to Association for Women in Science, Detroit Area Chapter, P.O. Box 721072, Berkley, MI 48072.

EXHIBITS

Hard Times: Victorian Social Realism is open to the public at the Yale Center for British Art 6 April–29 May 1988. It is the first exhibition to trace the rise of social realism in Victorian art, an aspect of nineteenth-century English painting that has undergone considerable reevaluation and rediscovery in the past ten years. This landmark exhibition comprises over one hundred paintings, including many borrowed from the Royal Collection, the National Galleries, the Tate Gallery, and private collections in England, Europe, and the United States.

Legacies of Genius: A Celebration of Philadelphia Libraries is a free exhibition of nearly 250 rare books, manuscripts, and works of art, drawn from the sixteen member libraries of the Philadelphia Area Consortium of Special Collections Libraries (PACSCL). It will be on display from 16 April through 25 September 1988 in the adjoining galleries of the Historical Society of Pennsylvania and the Library Company of Philadelphia at 1300 Locust Street, Philadelphia. Hours: Tuesday, Thursday, Friday, and Saturday, 10 a.m.–5 p.m.; Wednesday, 1 p.m.–9 p.m.; Sunday, 1 p.m.–5 p.m.; closed Mondays.

Pnina G. Abir-Am; Dorinda Outram (Editors). *Uneasy Careers and Intimate Lives: Women in Science, 1789–1979*. Foreword by **Margaret W. Rossiter**. (The Douglass Series on Women's Lives and the Meaning of Gender.) xiii + 365 pp., illus., index. New Brunswick, N.J./London: Rutgers University Press, 1987. \$35 (cloth); \$12 (paper).

Albert Abramson. *The History of Television, 1880 to 1941*. xiv + 354 pp., illus., bibl., index. Jefferson, N.C./London: McFarland, 1987. \$29.95.

Robert K. Adair. *The Great Design: Particles, Fields, and Creation*. vi + 376 pp., figs., index. New York/Oxford: Oxford University Press, 1987. \$24.95.

Georgius Agricola. *Vom Bergkwerck XII Bücher*. With commentary by **Hans Prescher**. Facsimile edition. cccxc + 161 pp., illus., bibl., index. Weinheim: Acta Humaniora, VCH, 1985.

Albertus Magnus. *Man and the Beasts: De animalibus* (Books 22–26). Translated by **James Scanlan**. (Medieval and Renaissance Texts and Studies, 47.) 516 pp., illus., bibl., index. Binghamton, N.Y.: Medieval and Renaissance Texts and Studies, 1987. \$25.

Olive Anderson. *Suicide in Victorian and Edwardian England*. xiii + 475 pp., illus., figs., apps., bibl., index. Oxford: Clarendon, 1987. \$84.

Rima D. Apple. *Mothers and Medicine: A Social History of Infant Feeding, 1890–1950*. (Wisconsin Publications in the History of Science and Medicine, 7.) xv + 251 pp., illus., index. Madison/London: University of Wisconsin Press, 1987. \$39.50 (cloth); \$16.25 (paper).

Mary Austin. *The Land of Little Rain*. Introduction by **Edward Abbey**. (The Penguin Nature Library.) xiii + 107 pp. Boston: Houghton-Mifflin, 1903; London/Harmondsworth, Middlesex: Penguin, 1987. \$6.95 (paper).

Paul H. Barrett; Donald J. Weinshank; Paul Ruhlen; Stephan J. Ozminski (Editors). *A Concordance to Darwin's The Descent of Man, a Selection in Relation to Sex*. x + 1137 pp., apps. Ithaca, N.Y./London: Cornell University Press, 1987. \$75.

J. F. Battail (Editor). *La Suède intellectuelle et savante*. (Uppsala Studies in History of Science, 3.) 191 pp., figs. Naples: Prismi Editrice Politecnica, 1986. (Paper.)

Ronald Bayer. *Homosexuality and American Psychiatry: The Politics of Diagnosis. With a New Afterword on AIDS and Homosexuality*. viii + 242 pp., index. New York: Basic Books, 1981; Princeton, N.J./Guildford, Surrey: Princeton University Press, 1987. \$9.95 (paper).

J. S. Bell. *Speakable and Unspeakable in Quantum Mechanics*. (Collected Papers on Quantum Philosophy.) xii + 212 pp. Cambridge/New York/New Rochelle, N.Y.: Cambridge University Press, 1987.

Whitfield J. Bell, Jr. *The College of Physicians of Philadelphia: A Bicentennial History*. viii + 326 pp., illus., app., index. Canton, Mass.: Science History Publications USA, 1987. \$40.

J. A. Bennett. *The Divided Circle: A History of Instruments for Astronomy Navigation and*

Surveying. 224 pp., illus., bibl., indexes. Oxford: Phaidon/Christie's, 1987. \$75.

Bernadette Bensaude-Vincent. *Langevin: Science et vigilance*. (Un Savant, Une Epoque.) 271 pp., illus., bibl., index. Paris: Belin, 1987. (Paper.)

J. L. Berggren; B. R. Goldstein (Editors). *From Ancient Omens to Statistical Mechanics*. (Acta Historica Scientiarum Naturalium et Medicinalium, 39.) xix + 298 pp., illus., index. Copenhagen: University Library, 1987. DKr 285 (paper).

Werner Bergmann. *Innovationen im Quadrivium des 10. und 11. Jahrhunderts: Studien zur Einführung von Astrolab und Abakus im lateinischen Mittelalter*. (Sudhoffs Archiv Zeitschrift für Wissenschaftsgeschichte, 216.) 257 pp., illus. Stuttgart: Franz Steiner Verlag, 1985. (Paper.)

Martin Bernal. *Black Athena: The Afroasiatic Roots of Classical Civilization*. Volume I: *The Fabrication of Ancient Greece, 1785–1985*. xxxii + 575 pp., bibl., index. New Brunswick, N.J.: Rutgers University Press, 1987. \$45 (cloth); \$15 (paper).

Roger E. Bilstein. *Flight in America: From the Wrights to the Astronauts*. xii + 356 pp., illus., index. Baltimore/London: Johns Hopkins University Press, 1984; 1987. \$32.50 (cloth); \$12.95 (paper).

Carl B. Boyer. *The Rainbow: From Myth to Mathematics*. 376 pp., figs., bibl., index. Princeton, N.J.: Princeton University Press, 1987. \$40 (cloth); \$12.95 (paper).

Mary A. B. Brazier. *A History of Neurophysiology in the Nineteenth Century*. xiv + 265 pp., illus., bibl., indexes. New York: Raven Press, 1987. \$69.

Howard Brody. *Stories of Sickness*. xiii + 210 pp., bibl., index. New Haven, Conn./London: Yale University Press, 1987. \$27.50.

C. D. B. Bryan. *The National Geographic Society: One Hundred Years of Adventure and Discovery*. 484 pp., plates, illus., bibl., index. New York: Abrams, 1987. \$45.

John G. Burke (Editor). *Science and Culture in the Western Tradition: Sources and Interpretations*. xv + 335 pp., figs. Scottsdale, Ariz.: Gorsuch Scarisbrick, 1987. \$14 (paper).

John C. Burnham. *How Superstition Won and Science Lost: Popularizing Science and Health in the United States*. xi + 369 pp., illus., index. New Brunswick, N.J./London: Rutgers University Press, 1987. \$35 (cloth); \$16 (paper).

Frederick Burwick (Editor). *Approaches to Organic Form: Permutations in Science and Culture*. (Boston Studies in the Philosophy of Science, 105.) xix + 286 pp., index. Dordrecht/Boston/Lancaster: D. Reidel, 1987. (Distributed by Kluwer Academic Publishers, Norwell, Mass.) Dfl 160, \$64, £43.95.

Mark Caldwell. *The Last Crusade: The War on Consumption, 1862–1954*. 336 pp., illus., index. New York: Atheneum, 1988. \$22.50.

M. Campbell. *A Century Since Mendel*. iv + 60 pp., illus., index. Adelaide/Wollongong: Illert, 1985. (Paper.)

Fritjof Capra. *Uncommon Wisdom: Conversations with Remarkable People.* 334 pp., bibl., index. New York/London/Toronto: Simon & Schuster, 1988. \$19.95.

Raymond B. Cattell. *Beyondism: Religion from Science.* x + 325 pp., figs., index. New York/Westport, Conn./London: Praeger, 1987. \$41.95.

Luc Chartrand; Raymond Duchesne; Yves Gingras. *Histoire des sciences au Québec.* 487 pp., illus., bibl., index. Montreal: Boréal, 1987. [Paper].

Jon M. Conrad; Colin W. Clark. *Natural Resource Economics: Notes and Problems.* x + 231 pp., figs., index. Cambridge/New York/New Rochelle, N.Y.: Cambridge University Press, 1987. \$39.50 (cloth); \$14.95 (paper).

Henry S. F. Cooper, Jr. *Before Lift-Off: The Making of a Space Shuttle Crew.* xiv + 270 pp., illus., index. Baltimore/London: Johns Hopkins University Press, 1987. \$18.50.

James W. Cortada. *Historical Dictionary of Data Processing: Biographies.* xiii + 321 pp., apps., index. \$49.95. *Organizations.* x + 309 pp., figs., apps., index. \$45. *Technology.* xi + 415 pp., figs., app., index. \$55. New York/Westport, Conn./London: Greenwood Press, 1987.

Ioan P. Couliano. *Eros and Magic in the Renaissance.* Translated by Margaret Cook. Foreword by Mircea Eliade. xxi + 264 pp., illus., bibl., index. Chicago/London: University of Chicago Press, 1987. \$34.95 (cloth); \$13.95 (paper).

William J. Courtenay. *Schools and Scholars in Fourteenth-Century England.* xix + 435 pp., bibl., index. Princeton, N.J.: Princeton University Press, 1987. \$48.

Elisabeth Crawford; J. L. Heilbron; Rebecca Ullrich. *The Nobel Population, 1901-1937: A Census of the Nominators and Nominees for the Prizes in Physics and Chemistry.* (Berkeley Papers in History of Science, 11.) (Uppsala Studies in History of Science, 4.) 337 pp., illus., bibl., index. Berkeley: Office for History of Science and Technology of the University of California; Uppsala: Office for History of Science of Uppsala University, 1987. \$20.

Patrick Curry (Editor). *Astrology, Science and Society: Historical Essays.* ix + 302 pp., illus., bibl., index. Woodbridge, Suffolk/Wolfeboro, N.H.: Boydell Press, 1987. \$57.50.

Sylvia J. Czerkas; Everett C. Olson (Editors). *Dinosaurs Past and Present: An Exhibition and Symposium Organized by the Natural History Museum of Los Angeles County.* Volume II. xiii + 149 pp., illus., figs., index. Los Angeles: Natural History Museum; Seattle/London: University of Washington Press, 1987. \$35.

Charles Darwin. *Charles Darwin's Natural Selection: Being the Second Part of His Big Species Book Written from 1856 to 1858.* Edited by R. C. Stauffer. xvi + 692 pp., illus., bibl., index. Cambridge/New York/New Rochelle, N.Y.: Cambridge University Press, 1975; 1987. \$29.95 (paper).

Charles Darwin. *Charles Darwin's Notebooks, 1836-1844: Geology, Transmutation of Species, Metaphysical Enquiries.* Transcribed and edited by Paul H. Barrett, Peter J. Gautrey, Sandra Herbert, David Kohn, and Sydney Smith. viii +

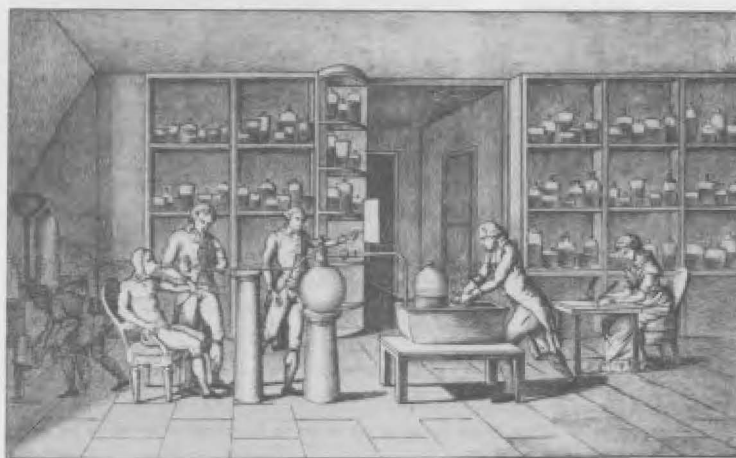
747 pp., bibl., indexes. Ithaca, N.Y.: Cornell University Press for the British Museum (Natural History), 1987. \$75.

Charles Darwin. *The Correspondence of Charles Darwin.* Edited by Frederick Burkhardt, Sydney Smith, Janet Browne, David Kohn, and William Montgomery. Volume III: 1844-1846. xxxii + 523 pp., apps., bibl., index. Cambridge/New York/New Rochelle, N.Y.: Cambridge University Press, 1987.

Charles Darwin. *The Works of Charles Darwin.* Edited by Paul H. Barrett and R. B. Freeman.

Volume I: *Diary of the Voyage of H.M.S. Beagle.* Edited by Nora Barlow. 411 pp., apps., index. \$75. Volume II: *Journal of Researches, Part One.* 240 pp., illus. \$75. Volume III: *Journal of Researches, Part Two.* 257 pp., illus., index. \$75. Volume IV: *The Zoology of the Voyage of H.M.S. Beagle.* Part 1: *Fossil Mammalia;* Part 2: *Mammalia.* xxiii + 300 pp., plates. \$95. Volume V: *The Zoology of the Voyage of H.M.S. Beagle.* Part 3: *Birds.* 244 pp., plates, index. \$95. Volume VI: *The Zoology of the Voyage of H.M.S. Beagle.* Part 4: *Fish;* Part 5: *Reptiles.* 346 pp., plates. \$95. Volume VII: *The Geology*

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Paul Davies. *The Cosmic Blueprint: New Discoveries in Nature's Creative Ability to Order the Universe*. viii + 224 pp., bibl., index. New York/London: Simon & Schuster, 1988. \$17.95.

Virginia P. Dawson. *Nature's Enigma: The Problem of the Polyp in the Letters of Bonnet, Trembley, and Réaumur*. (Memoirs of the American Philosophical Society, 174.) ix + 266 pp., illus., apps., bibl., index. Philadelphia: American Philosophical Society, 1987. \$20.

E. J. Dijksterhuis. *Archimedes*. Translated by C. Dikshoorn. With a new bibliographic essay by **Wilbur R. Knorr**. 457 pp., illus., figs., bibl., index. Princeton, N.J.: Princeton University Press, 1987. \$15 [paper].

O. A. W. Dilke. *Mathematics and Measurement*. (Reading the Past.) 64 pp., illus., bibl., index. Berkeley: University of California Press for the British Museum, 1987. [Paper.]

René Dubos. *Mirage of Health: Utopias, Progress, and Biological Change*. 282 pp. New York: Harper, 1959; New Brunswick, N.J./London: Rutgers University Press, 1987. \$25 (cloth); \$10 (paper).

Jack R. Duker; Joachim Remak (Editors). *Another Germany: A Reconsideration of the Imperial Era*. (Westview Special Studies in West European Politics and Society.) xi + 250 pp., index. Boulder, Colo./London: Westview Press, 1988. \$32.50.

John Dupré (Editor). *The Latest on the Best: Essays on Evolution and Optimality*. xii + 359 pp., figs., bibl., indexes. Cambridge, Mass./London: MIT Press, 1987.

Paul T. Durbin (Editor). *Technology and Responsibility*. (Philosophy and Technology, 3.) ix + 392 pp., bibl., index. Dordrecht/Boston/Lancaster: D. Reidel, 1987. Dfl 150, \$69, £54.50.

Ralph E. Ehrenberg. *Scholars' Guide to Washington, D.C., for Cartography and Remote Sensing Imagery (Maps, Charts, Aerial Photographs, Satellite Images, Cartographic Literature, and Geographic Information Systems)*. (Woodrow Wilson International Center for

Scholars Series.) xx + 385 pp., apps., bibl., indexes. Washington, D.C.: Smithsonian Institution Press, 1987. \$29.95 (cloth); \$15 (paper).

Derek Elsom. *Atmospheric Pollution: Causes, Effects and Control Policies*. x + 319 pp., illus., bibl., index. Oxford/New York: Basil Blackwell, 1987. \$49.95 (cloth); \$18.95 (paper).

Dietrich von Engelhardt. *Wissenschaftsgeschichte auf den Versammlungen der Gesellschaft Deutscher Naturforscher und Ärzte, 1822-1972*. (Schriftenreihe zur Geschichte der Versammlungen Deutscher Naturforscher und Ärzte, 4.) 206 pp., illus., indexes. Stuttgart: Wissenschaftliche Verlagsgesellschaft, 1987. DM 48 [paper].

Richard J. Evans. *Death in Hamburg: Society and Politics in the Cholera Years, 1830-1910*. xxiv + 676 pp., illus., figs., app., bibl., index. Oxford: Clarendon, 1987. \$98.

William Barnaby Faherty, S.J. *Henry Shaw: His Life and Legacies*. xi + 227 pp., illus., figs., bibl., index. Columbia/Kansas/Rolla: University of Missouri Press, 1987. \$29.

Richard P. Feynman; Steven Weinberg. *Elementary Particles and the Laws of Physics: The 1986 Dirac Memorial Lectures*. x + 110 pp., illus., figs. Cambridge/New York/New Rochelle, N.Y.: Cambridge University Press, 1987. \$12.95.

K. N. Finne. *Igor Sikorsky: The Russian Years*. Edited by **Carl J. Bobrow and Von Hardesty**. Translated by **Von Hardesty**. 223 pp., illus., apps., bibl., index. Washington, D.C.: Smithsonian Institution Press, 1987. \$22.50.

Chet Fleming. *If We Can Keep a Severed Head Alive . . . : Discorporation and U.S. Patent 4,666,425*. xxxiv + 461 pp., apps., index. St. Louis: Polynym Press, 1987. \$12.95.

Tom Forester. *High-Tech Society: The Story of the Information Technology Revolution*. viii + 311 pp., illus., figs., bibl., index. Cambridge, Mass./London: MIT Press, 1987. \$19.95.

Tom Forester (Editor). *The Information Technology Revolution*. xvii + 674 pp., illus., figs., bibl., index. Cambridge, Mass.: MIT Press, 1987. [Paper.]

J. T. Fraser. *Time: The Familiar Stranger*. xiii + 389 pp., illus., figs., bibl., index. Amherst: University of Massachusetts Press, 1987. \$24.95.

Catherine Gallagher; Thomas Laqueur (Editors). *The Making of the Modern Body: Sexuality and Society in the Nineteenth Century*. xv + 242 pp., illus., index. Berkeley/Los Angeles/London: University of California Press, 1987. \$9.95 (paper).

Rafael Huertas García-Alejo. *Locura y degeneración: Psiquiatría y sociedad en el positivismo francés*. (Cuadernos Galileo de Historia de la Ciencia, 5.) 181 pp., plates, bibl. Madrid: Consejo Superior de Investigaciones Científicas, Centro de Estudios Históricos, 1987. [Paper.]

Eli Ginzberg (Editor). *Medicine and Society: Clinical Decisions and Societal Values*. (Cornell University Medical College Third Conference on Health Policy.) (Conservation of Human Resources Studies in Health Policy.) xi + 153 pp., figs., index. Boulder, Colo./London: Westview Press, 1987. \$19.95.

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Thomas F. Glick. *Einstein in Spain: Relativity and the Recovery of Science.* xiii + 391 pp., illus., bibl., index. Princeton, N.J.: Princeton University Press, 1988. \$42.

Thomas F. Glick (Editor). *The Comparative Reception of Relativity.* (Boston Studies in the Philosophy of Science, 103.) vii + 412 pp., illus., index. Dordrecht/Boston/Lancaster: D. Reidel, 1987. (Distributed in the U.S. and Canada by Kluwer Academic Publishers, Norwell, Mass.) Dfl 198, \$79, £54.50.

Jan Goldstein. *Console and Classify: The French Psychiatric Profession in the Nineteenth Century.* xiii + 414 pp., illus., app., index. Cambridge/New York/New Rochelle, N.Y.: Cambridge University Press, 1987.

F. G. Gosling. *Before Freud: Neurasthenia and the American Medical Community, 1870-1910.* xviii + 192 pp., illus., app., index. Urbana/Chicago: University of Illinois Press, 1987. \$22.95.

Allan Gotthelf; James G. Lennox (Editor). *Philosophical Issues in Aristotle's Biology.* xii + 462 pp., indexes. Cambridge/New York/New Rochelle, N.Y.: Cambridge University Press, 1987. \$49.50 (cloth); \$15.95 (paper).

Stephen Jay Gould. *Evolution and Human Equality.* 42 minute videocassette. 1987. \$200. Distributed by Insight Video, Cambridge, Mass.

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