NEH DIVISION OF EDUCATION PROGRAMS
A Major Resource for History of Science

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

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

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

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

(continued on page 29)
THE 1992 HSS ELECTION CANDIDATES’ BIOGRAPHIES
FOR COUNCIL

Rima D. Apple

Jed Z. Buchwald

Peter L. Galison

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

Caroline Hannaway

Seymour H. Mauskopf

Robin E. Rider

**Robert W. Seidel**
Senior staff member, Center for National Security Studies at Los Alamos National Laboratory. Ph.D., University of California, 1978. **Specialties:** history of modern science; history of national laboratories; history of military R&D.

**Professional activities:** HSS—Watson Davis Prize Committee, 1990-92, chair, 1992; Committee on Independent Scholars, 1990-92; Local Arrangements chair, 1993 annual meeting. Bradbury Science Museum, Los Alamos National Laboratory—Chairman of Policy Advisory Board. New Mexico Space Center Commission—Vice-Chairman.


**Jeffrey K. Stine**

**Jeffrey L. Sturchio**
Corporate Archivist & Manager, Public Affairs Information Center, Merck & Co., Inc. Ph.D., Univ. of Pennsylvania, 1981. **Specialties:** history of chemistry and chemical technology, history of industrial research and development.

FOR NOMINATING COMMITTEE, FROM COUNCIL

Toby A. Appel

Keith R. Benson

Gerald Holton

**Theodore M. Porter**
Associate Professor, Department of History, Univ. of California, Los Angeles. Ph.D., Princeton Univ., 1981.

**Richard S. Westfall**

**Joella G. Yoder**

**FOR NOMINATING COMMITTEE, AT LARGE**

**Loren Graham**

**Monica H. Green**

Kathryn M. Olesko

Phillip R. Sloan

NEWS OF THE SOCIETY


Toronto Meeting Transportation and Parking

Those attending this month's BSHS/CSHPS/HSS joint meeting in Toronto can get from Toronto International Airport to the Delta Chelsea Inn (33 Gerard Street West) or Victoria University Residence (140 Charles Street West) in one of three ways.

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

2. Gray Coach Bus Service runs between the airport and the Islington, York Mills, and Yorkdale stations on the excellent subway system operated by the Toronto Transit Commission (TTC). [The Bloor Street line runs east-west, the Yonge Street line runs north-south. The Gray Coach Bus fare is $6.00/one way or $10.00/round trip. The Subway fare is $2.00/one way or $3.00/two tickets.] Those using this service should take the Gray Coach bus to the Islington station. From there, they should proceed as follows:

a. To the Delta Chelsea Inn, take the subway going east to the Bloor station. From this stop, take the subway going south to the College station.

b. To the Victoria University Residence on the University of Toronto campus,
take the subway going east to the St. George station. From this stop, take the subway going south to the Museum station.

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

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

**New Editor for Isis Sought**

The Committee on Publications is currently searching for the next Editor of *Isis*, the official journal of the History of Science Society, to serve a five-year term, January 1994 through December 1998, with the possibility of extension. It is expected that during the term of the next Editor, *Isis* will continue to be published by the University of Chicago Press. Candidates for Editor will need institutional and collegial support to perform a wide variety of editorial tasks. This currently involves, at the Editorial Office at the University of Wisconsin, an Editor, Managing Editor, Book Review Editor, and two graduate assistants, plus a freelance Manuscript Editor and proof readers. The History of Science Society is able to provide major financial support (from the Dibner Fund) for the Editorial Office, but the Editor’s institution is expected to provide significant support as well. Potential editors should contact Edith Dudley Sylla, Chair, Committee on Publications [110 Bleecker Street, Apt. 23D, New York, NY 10012; (212) 673-2131] as soon as possible to obtain a packet of additional information. Preliminary proposals for the position should be sent as soon as possible and by 1 October 1992 at the latest. Revised proposals are due 1 November; interviews of finalists to take place at the History of Science Society Annual Meeting in Washington, DC, 28 and 29 December 1992.

**Changes at Isis**

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

**News of Osiris**

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

**Sets of Isis Back Issues Available**

The History of Science Society can now send sets of all available pre-1983 *Isis* back issues to any department or library (or other institution) that can cover shipping and handling costs. While previous issues of the *HSS Newsletter* have publicized the availability of these sets for libraries in developing countries, the Society can now send these sets to departments or libraries or other institutions throughout the world. Available sets include copies of approximately 85 different issues dating from the mid-1940s through 1982. No set is complete, but the more complete sets will be distributed on a first-come, first-served basis, as long as the Society has access to storage rooms at E. F. Smith Hall at the University of Pennsylvania. Programs, departments, libraries, and others institutions interested in obtaining these sets should send payment for shipping and handling ($75.00 in North America; $100.00 elsewhere, via sea mail) to the HSS Executive Secretary as soon as possible.

**Dibner Visiting Historians of Science Program**

As reported in past issues of the *HSS Newsletter* (e.g., October 1991, pp. 3-4; January 1992, p. 6), the Dibner Visiting Historians of Science Program continues to thrive. With continuing support from The Dibner Fund, a Connecticut-based foundation established in honor of Bern Dibner, the Society’s visitors travel regularly to (and speak at) many colleges and universities throughout the United States and Canada that seek to expand the role our discipline plays in their academic programs. While on host campuses, our Dibner Visiting Historians of Science deliver public lectures, conduct specialized seminars for all sorts of audiences, and (perhaps most importantly) meet with administrators and program planners to discuss the many ways in which history of science can enrich a wide variety of curricula. Since the program sponsored its first visits in 1985, such visits have led host institutions to hire historians of science, to increase course listings in the discipline offered by historians of science already on their faculties, to organize ongoing study groups for interested students and professors, to schedule in-service training programs, and in other ways to promote the expansion of our field. For the Spring 1992 semester, the North American Committee overseeing the Program reviewed formal applications from 23 colleges and universities and scheduled visits by the current group of Dibner Visiting Historians of Science as follows: Keith R. Benson, to Illinois State University and Nicholls State University (LA); Ruth Schwartz Cowan to the State Univ. of New York College at Cortland and Westbrook College (ME); Mordechai Feingold, to Bellarmine College (KY); Karl
Congressional Rescissions Threaten NSF Funding

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

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

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

NHPRC Historical Documents Study

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

The NASA History Division has moved to Two Independence Square, at Fourth and E Streets, SE, in Washington, DC. Its mailing address remains Code ADA-2, NASA Headquarters, Washington, DC 20546.
Local Arrangement Co-chairs:  
Marc Rothenberg & Kathryn Olesko  
Book Exhibit Coordinator:  
Paul Theerman  
Program Co-chairs:  
Theodore M. Porter & Karl Hofbauer

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

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

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

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

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

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

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

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

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

1. The National Demonstration Laboratory for Interactive Information Technologies, Tuesday, 29 December, 2-4 p.m.
The National Demonstration Laboratory (NDL) is designed to showcase the latest examples of the computer-video hybrids known as "multimedia". Founded at the Smithsonian Institution in 1987, the NDL moved to the Library of Congress in 1991, and opened its new space in the atrium of the LC's Madison Building last March. During the tour, staff will demonstrate some of the latest multimedia learning systems.

2. The Library of Congress, Monday, 28 December, 9:30-10:30 a.m.
This tour highlights the resources and holdings of the Library of Congress in the history of science and technology. Participants will also be brought up to date regarding computerized LC catalogues and security measures. This tour is designed for those contemplating using the LC for research in the near future, and provides an excellent opportunity to catch a glimpse of the LC's extensive renovations.

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

4. National Air and Space Museum, Smithsonian Institution, Dates and times TBA.
Members of the curatorial staff of NASM will lead tours of various exhibitions dealing with the history of science and technology. Specific subjects and times will be announced later.

Luncheon in Honor of Historia Mathematica
This year marks the 20th anniversary of the founding of Historia Mathematica, the quarterly journal published by the International Commission on History of Mathematics and Academic Press. Launched by Kenneth O. May at the University of Toronto as an informal newsletter in 1972, Historia Mathematica will be honored during the annual meeting with a special luncheon on Tuesday, December 29. Anyone in Washington at the time is cordially invited to attend this celebration. For additional information, contact the Chairman of the International Commission on History of Mathematics, Joseph W. Dauben [Ph.D. Program in History, The Graduate Center, City University of New York, 33 West 42nd Street, New York, NY 10036 USA; fax (212) 642-2642; e-mail JDX@CUNYVMS1GC.CUNY.EDU]. To reserve your place, please send him a check (made payable to Joseph W. Dauben) for $32.50 per person. Additional details will be sent in mid-October to all who respond. Payment should not be enclosed with nor added to the regular meeting registration payment.

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

SUNDAY, 27 DECEMBER

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

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

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

(Co-sponsor: Forum for the History of Science in America) 7:30-10:00 p.m.
Chair: Sally Gregory Kohlstedt, University of Minnesota
The Potomac Formation: Building Big Biology in Gilded Age

Washington, Philip J. Pauly*, Rutgers University
Maintaining a Cluttered Mind: Agricultural Breeders' Reception of Biological Theory, 1900-1930, Barbara A. Kimmelman, Philadelphia College of Textiles and Science
Biotrons, Boats, and Biomes: NSF and the Managing of Big Biology, Toby A. Appel, University of Florida
Commentator: Nathan Reingold

2. Natural Philosophy, Technology and the Arts in the Renaissance, 7:30-10:00 p.m.
Chair: Wilbur Applebaum*, Illinois Institute of Technology
Back to the Future: Classicism, Progress and Technical Innovation in Renaissance Humanism, Anthony Grafton, Princeton University
The Fate of the Zilsel Thesis, Robert Cohen, Boston University
Science and the Secrets of the Arts: Another Look at the Zilsel Thesis, William Eamon, New Mexico State University

MONDAY, 28 DECEMBER

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

Committee on Development, 7:30-8:30
Dibner Visiting Historians of Science, 7:30-8:30

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

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

Chair and commentator: Jane Maienschein, Arizona State University

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

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

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


Chair: Richard Olson, Harvey Mudd College

*Kantian Philosophy of Science in its German University Tradition, Steven Leston*, University of Chicago


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

Commentator: Phyllis Stock-Morton, Seton Hall University

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

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

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

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

*Naturphilosophie as Hermeneutic Fantasy, Michael Dettlebach, Stanford University

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

6. Popular Rhetoric and Professional Science: The "New Psychology" and Its Audience, 1890-1920

(Co-sponsor: Forum for History of Human Science), 9:00-11:30

Chair: John Burnham, Ohio State University

*New Subjects for New Readers: The New Language of Psychology Textbooks, Jill Morawski, Wesleyan University

*Didactic Science and Public Persuasion: William James as Pop Psychologist, Paul Croce, Stetson University

*A Sermon of New Science: "The Kallikak Family" as Eugenic Parable, Leila Zenderland*, California State University, Fullerton

Commentator: Michael M. Sokal, Worcester Polytechnic Institute

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

Chair and commentator: David Joravsky, Northwestern University

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

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

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

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

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

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

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

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

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

Commentator: Karl Hubbauer, University of California, Irvine.

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

Chair: Thomas P. Hughes, University of Pennsylvania

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

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

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

Commentator: Leo Marx, Massachusetts Institute of Technology

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

Chair: Pamela Mack, Clemson University

*Constructing Uniformity: The Ways and Means of Standardization, Larry Randles Lagerstrom, University of California, Berkeley
11. Darwin and Freud in American Culture
(Joint session with the American Historical Association; Co-sponsor: Forum for History of Human Science), 9:30-11:30
Chair: James Turner*, University of Michigan
American Scientists and Organic Evolution, 1859-1900, Ronald L. Numbers, University of Wisconsin, Madison
Freudianism and American Christian Theology, 1910-1940, Jon H. Roberts, University of Wisconsin, Stevens Point
Commentators: James Turner
Deborah J. Coon, Rensselaer Polytechnic Institute

Forum for History of Science in America
12:00-12:30 Business Meeting
Committee on Women, 12:00-1:00
OSIRIS Editorial Board, 12:00-1:00
Committee on Education, 12:00-1:00
Early Science Interest Group, 12:00-1:00

Chair and commentator: Steve Dick*, US Naval Observatory
Extraterrestrial Intelligence and the UFO Phenomenon in the Early Years of Air Force Project Blue Book, Michael Swords, Western Michigan University
The Condon Report on the Colorado UFO Project, Peter Sturrock, Stanford University
J. Allen Hynek and the UFO Dilemma, David Jacobs, Temple University

13. Professionalism: An Implied Warranty, 1:30-3:30
Chair and commentator: Ralph W. Brauer, Institute for Research on the Interrelation of Science and Culture
The Professionalism of the Roman Architect, William L. MacDonald, independent scholar
Medical Professionalism from Antiquity, H. William Gillen*, Institute for Research on the Interrelation of Science and Culture
Ancient and Modern Engineering: Professionalism Compared, George W. F. Hauck, University of Missouri, Kansas City

14. Material Understanding: Artisans and Natural Philosophers in the Scientific Revolution, 1:30-3:30
Chair: Owen Hannaway, Johns Hopkins University
The Scholar and Craftsman Revisited, Pamela O. Long, Washington, D.C.
The Erasure of the Artisan in Seventeenth-Century Natural Philosophy, Pamela H. Smith*, Pomona College
Consuming Philosophy: The Making of the Market for Natural Philosophy in the Eighteenth Century, Larry Stewart, University of Saskatchewan
Commentator: Lesley B. Cormack, University of Alberta

15. Discovering the “Normal” at the Fin-de-siècle (Co-sponsor: Forum for History of Human Science), 1:30-3:30
Chair and commentator: JoAnne Brown, Johns Hopkins University
Symbols of Normalcy and Deviance: The Impact of Photographic and Statistical Representation on the “Study of Man,” Jeffrey C. Brautigam, University of Florida
Between Geniuses and the Feebleminded: American Psychologists and the Discovery of the Normal, John Carson*, Princeton University
Everyday Practices and Scientific Knowledge: Psychiatrists and the Normal, 1900-1930, Elizabeth Lunbeck, Princeton University

Chair and commentator: Robert Richards, University of Chicago
Recapturing the Past: The Moral Sciences and a Liberal Education David Valone, University of Chicago
Master and Machine: On the Discourse of Science and Technology in Victorian England, Paul White, University of Chicago
Science or Pseudo-Science? The Investigation of Sea Monsters in Victorian England, Sherri Lyons*, Daemen College

17. Science in the Pacific Century (Co-sponsor: Pacific Circle), 1:30-3:30
Chair: Keith Benson, University of Washington
The Meanings of Success: Tropical Medicine and Bacteriology in Boston and the Andes, Marcos Cueto, Massachusetts Institute of Technology
Viewing Pacific Science through the Lens of the Pacific Science Association, Fritz Rehbock*, University of Hawaii
18. Mapping the Invisible: Faunal Distribution, Geological Change, and Evolutionary Trees, 1:30-3:30

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

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

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

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

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

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

Chair: Edith Dudley Sylla*
Medical Learning and its Public in the Middle Ages, Michael McVaugh, University of North Carolina, Chapel Hill
John of Rupescissa and Bernard of Trier: Two Models of the Relationship of Alchemy and Religion in the Middle Ages, William Newman, Harvard University
The Ivory Tower and the Burg: Academic Consulting in Late Medieval Vienna, Michael Shank, University of Wisconsin
Commentator: Joan Cadden, Kenyon College

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

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

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

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

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

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

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

Chair: Kristie Macrakis
Science and Political Unification in the New Germany, Kristie Macrakis*, Michigan State University
Legal Aspects of Abwicklung in East Germany and its Effects on Academic Freedom, Vincent Brannigan, University of
29. Psychology and Styles of Reasoning in Interwar Germany and America (Co-sponsor: Forum for History of Human Science), 9:00-11:30

Organized by Margaret Schabas, York University
Chair and commentator: Gerd Gigerenzer, University of Chicago
From Stimulus-Response to Intervening Variables: The Emergence of a Disciplinary Language for Psychology, Kurt Danziger, York University
Emigré Psychologists after 1933: Change in Scientific and Professional Practices, Mitchell G. Ash, University of Iowa
Negotiating with Modernism: Kurt Goldstein’s Neurobiology of Heroic Wholeness, Anne Harrington, Harvard University

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

Chair and commentator: Stuart W. Leslie
Precision, Authority, and the State, Kathryn Olesko, Georgetown University
Morals and Measurement in Victorian Britain, Graeme Gooday, University of Kent
The Ohm Is Where the Art Is: Electrical Standards in Victorian Telegraphy, Bruce Hunt*, University of Texas, Austin

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

Chair: Everett Mendelsohn, Harvard University
Leo Szilard and Post-War Science: From Nuclear Physics to Molecular Biology, William Lannouette, independent scholar
Science and Politics in the New Russia: The Case of Nikolai W. Timofeev-Resovsky, Kirill Rossianov, Russian Academy of Sciences
French Science Policy toward Molecular Biology: The Roles of CNRS and DGRST, Jean-Paul Gaudillière, CNRS Paris and Massachusetts Institute of Technology
Commentators: John T. Edsall, Harvard University
Paul K. Hoch, University of Nottingham

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

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

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

TUESDAY, 29 DECEMBER

Committee on Publications, 8:00-5:00

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

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

Chair: Everett Mendelsohn, Harvard University

BSA-English Language, 7:30-8:30

Chair and commentator: Gerd Gigerenzer, University of Chicago
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Morals and Measurement in Victorian Britain, Graeme Gooday, University of Kent
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ISIS Editorial Board, Dinner Meeting, 7:00-9:00

Henry Sigerist Circle of Medical Historians, Reception, 8:00-10:00
32. Calculating Liberals: Ideology, Social Numbers, and Government Policies in Nineteenth-Century Europe, 9:00-11:30

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

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

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


Commentator: Kristie McClure, Johns Hopkins University

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

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

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

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

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

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

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

Chair and commentator: Phillip R. Sloan

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

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

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

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

Chair: Spencer Weart, American Institute of Physics

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

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

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

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

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

Chair: Robert Hatch, University of Florida

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

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

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

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

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

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

The Role of Circular Motion in Galileo’s Padoan Mechanics, David Hill, Augustana College

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

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

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

Chair: Peter Dear, Cornell University

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

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

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

Commentator: Allan Megill*, University of Virginia

HSS Business Meeting, 11:45-12:30

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

Chair: Ronald E. Doel*, American Institute of Physics
39. Bringing the History of Science to a Wider Audience
(Co-sponsor: HSS Committee on Education), 12:00-1:45

Organized by Paul Theerman, Smithsonian Institution
Chair: Stanley Goldberg, independent scholar
Panel Members
Diane B. Paul, University of Massachusetts, Boston
Robert W. Smith, Smithsonian Institution
Arthur P. Molella, Smithsonian Institution
David K. Allison, Smithsonian Institution

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

Committee on Diversity, 12:30-1:30

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

Committee on Finance, 12:30-3:30

Budget Subcommittee: 3:30-4:30

Investments Subcommittee: 3:30-4:30

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

Chair: Sylvan S. Schweber, Brandeis University

German Physicists as Chemists: Helmholtz, Planck, and Nernst, Diana Barkan, California Institute of Technology
Who is Chemist? Who is Physicist? Is there a Distinction in U.S. Quantum Science?, Alexi Assmus*, University of California, Berkeley

Commentator: Erwin Hiebert, Harvard University

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

Chair: Michael J. Crowe*, University of Notre Dame
Defending the Muse: Herschel, Talbot, and the Invention of Photography, Larry J. Schaaf, independent scholar
Sir John Herschel and Meteorology, Vladimir Jankovic, University of Notre Dame
A Reconsideration of John Herschel’s Philosophy of Science and its Religious Foundations, Marvin Bolt, University of Notre Dame

Commentator: Reese Jenkins, Rutgers University

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

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

American Institute of Physics

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

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

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

Commentator: Joseph N. Tatarlewicz

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

Chair: Daniel P. Jones, National Endowment for the Humanities
Introduction: Rationale and Background of Guided Studies, Harvey Flamanhaft, St. John’s College

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

Lavoisier, Arthur Donovan, US Merchant Marine Academy

Einstein, Daniel M. Siegel, University of Wisconsin, Madison

Commentator: Frederic L. Holmes, Yale University

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

Chair: Mordechai Feingold, Virginia Polytechnic Institute and State University

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

The Career and Writings of Bartholomew Keckermann (d. 1669), Joseph S. Freedman*, Illinois Wesleyan University

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

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

Chair: Philip Mirowski*, University of Notre Dame

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

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

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

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

The Meaning of Replication in Scientific Practices, Philip Mirowski
46. Works in Progress A: Enlightenment and Romanticism, 2:00-3:00

Chair: Seymour Mauskopf, Duke University

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

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

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

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

Chair: Mitchell Ash, University of Iowa

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

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

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

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

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

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

Chair: Joe D. Burchfield, University of Northern Illinois

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

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

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

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

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

Chair: Liliane Beaulieu, Université de Québec

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

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


History of Science Society Newsletter

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

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

Chair: John Higham, Johns Hopkins University

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

Commentators:

Adolph Reed, Jr., Northwestern University

Evelyn Fox Keller, Massachusetts Institute of Technology

Philip Gleason, University of Notre Dame

HSS Distinguished Lecture, 5:00-6:00

Introduction: Charles Gillispie, Princeton University

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

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

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

Chair: Nadine Ishitana Hata, El Camino College

Showing of film: "The Scientist"

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

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

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

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

HSS Banquet, 8:00-10:00

Wednesday, 30 December

49. Disciplining the Subject: Three Case Studies, 9:30-12:00

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

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

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

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

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

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

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

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

The Subject of Suggestion, Ruth Leys*, Johns Hopkins University
Chair: Michael Aaron Dennis*, University of California, San Diego

"Atonement": War Guilt and the Atomic Bomb Casualty

Commission, M. Susan Lindee, University of Pennsylvania

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

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

Commentator: Larry Owen, University of Massachusetts, Amherst

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

Chair: Barbara Maria Stafford*, University of Chicago

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

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

Spatial Thinking Before and After Computers, James Elkins

School of the Art Institute of Chicago

Visions of Theory, Timothy Lenoir, Stanford University

Commentator: M. Norton Wise, Princeton University

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

Chair: Daniel J. Kevles, California Institute of Technology

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

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

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

Commentator: Gerald Geison, Princeton University

See hotel registration form on page 21
The European Association for the History of Medicine and Health (EAHMH) has been created recently, after several meetings at which medical historians from Europe and North America discussed the aims, objects, and organisation of such a new scientific society. All agreed on the need for a high level academic forum in Europe, at which scholars interested in the history of medicine and other medical specialties as well as demographers, social historians, social anthropologists, could meet and exchange ideas. The purpose of the Association is also the education of the public in the historical perspective of problems of medicine, health and disease. The official seat of the Association is at the Université Louis Pasteur, Strasbourg, and its first officers include: President, U. Tröhler (Göttingen); Secretary/Treasurer, C. Debru (Strasbourg); members of the Council, H. Beukers (Leiden), B. Lindsog (Copenhagen), and the President of the Université Louis Pasteur (or his deputy). The Association seeks members from all parts of the world and offers (for annual dues of 150 French Francs) an annual newsletter and reduced-rate fees for the proceedings of its biennial congresses and other publications. For further information contact C. Debru, Centre Européen d'Histoire de la Médecine, Faculté de Médecine, 4, rue Kirschleger, 67085 Strasbourg Cedex, France. The first congress will take place in Göttingen in September 1993; for further information contact U. Tröhler, Institut für Geschichte der Medizin, Humboldtallee 11, D-3400 Göttingen, Germany.

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


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

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

The Department of Philosophy of the Université Paul Valéry in Montpellier, France, has announced preliminary plans for a conference, Ordre Biologique, Ordre Technologique, to be held in at the University, 16-28 November 1992. For further information contact Franck Tinland, Centre de Recherche et
History of Science Society
Annual Meeting, 27-30 December 1992

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

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RECENTLY COMPLETED DISSERTATIONS

Frank R. Freemon, “Medical Care during the American Civil War,” University of Illinois, Urbana-Champaign, 1992.


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

FELLOWSHIPS & GRANTS AVAILABLE

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

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

Applications are now being accepted from established scholars for the 1993-94 Edelstein International Fellowship in the History of Chemical Sciences and Technology. The Fellow will divide his or her time (from 1 September 1993 to 30 June 1994) between the Beckman Center for the History of Chemistry in Philadelphia and the Edelstein Center for History and Philosophy of Science, Technology and Medicine in Jerusalem, and may be combined with other research or sabbatical support. The Fellow will devote the major portion of his or her time to research, and will also contribute to the work of each Center in an appropriate manner. A travel allowance is also available. Letters of application should indicate how the resources of the Beckman Center and the Edelstein Collection are relevant to the applicant's research, and should also enclose a financial statement, a curriculum vitae, and the names and addresses of three referees. Applications should be received by 31 October 1992 by Seymour H. Mauskopf, Department of History, Duke University, Durham, NC 27706; (919) 684-3014.

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

The Reference Materials Program of the National Endowment for the Humanities supports two kinds of projects. The first produce reference works designed to improve access to information and resources; for example, dictionaries, historical or linguistic atlases, encyclopedias, concordances, reference grammars, databases, text bases, and other essential scholarly tools for the advancement of research or for general reference purposes. The second assist scholars and researchers locate information about humanities documentation, and lead to scholarly guides—such as bibliographies, bibliographic databases, catalogues raisonnés, other descriptive catalogues, indexes, union lists, and similar works—that enable researchers to determine the usefulness or relevance of specific materials. In both areas, support is also available for projects that address important issues related to the design or accessibility of reference works. The deadline is 1 September 1992, for projects beginning after 1 July 1993. For additional information, contact the Reference Materials Program, National Endowment for the Humanities, Washington, DC 20506.

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

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

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

DEADLINE FOR PROPOSALS: NOVEMBER 2, 1992

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

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

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

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

The University of Melbourne invites applications for a continuing lectureship/senior lectureship in the Department of History and Philosophy of Science to begin 1 January 1993. Applicants should have a higher degree; preference will be given to those with active teaching and research experience in modern sciences. The successful applicant will develop and teach undergraduate courses for both Arts and Science students in this area, and, initially, will serve as Director of the M.A. and M.Sc. in Science in Society, course-work programmes that together have an enrollment of approximately 50 students. Salary will be in the range of $A39,463 to $A47,150 (Lecturer) or $A48,688 to $A55,000 (Senior Lecturer). Information regarding the Department, including details of current teaching and research, is available from the Head of Department, Homer E. Le Grand, telephone (from North America) 011/61/3/344-7570; fax (from North America) 011/61/3/344-7959. Applications (quoting Position Number 136033) with names and addresses of three referees should be addressed in duplicate to The Director, Personnel Services, the University of Melbourne, Parkville, Victoria 3052 and should arrive by 15 August 1992. Referees should include the reference number for this position on their letters of recommendation and submit them by the same date.

POSITIONS (FOR THE RECORD)

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

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

The Science and Technology Studies section of the Humanities Programme of Imperial College of Science, Technology and Medicine sought a Lecturer in History of Science, to have “prime responsibility for the flourishing M.Sc. course in the History of Science, Technology, and Medicine, run jointly with University College.” The search closed on 6 May 1992. For further information contact Bryan Coles, Humanities Programme, 446 Sherfield Building, Imperial College, London SW7 2AZ, telephone (from North America) 011/44/71/589-2111, ext. 7060; fax (from North America) 011/44/71/581-3689.

The National Endowment for the Humanities sought Program Officers for its Division of Education Programs to oversee a variety of fields and projects in its Higher Education in the Humanities Program, and especially sought candidates with expertise in (among other areas) history or philosophy of science.

RESEARCH OPPORTUNITIES

The NASA History Division has recently issued two NASA Research Announcements (NRAs) soliciting proposals for research. NRA 92-ADA-2-2 (proposal deadline 15 August 1992) calls for a Planetary Astronomy History Project for “research in the history of ground- and space-based equipment to obtain scientific data about the planets and satellites of the universe.” NRA 92-ADA-2-4 (proposal deadline 31 August 1992) calls for a project on the History of Space and the American Imagination for “research in the broad history of the love affair of the United States with space travel from its earliest consideration in science fiction to the present.” Potential respondents to either or both should request as soon as possible [from Patricia Shepard, Code ADA-2, NASA Headquarters, Washington, DC 20546, (202) 435-8300] copies of the appropriate NRAs, which “provide technical and project information...and guidelines for responding” to them.
RECENT FELLOWSHIPS & GRANTS

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

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


Recent recipients of long-term grants from the International Research and Exchanges Board (IREX) for study the former Soviet Union include: Robert Heilbroner (Univ. of Michigan), at the Institute of the History of Science and Technology, State Oblast’ Arch., Odessa, for “Envisioning Science: Russian Scientists and Their Missions”; and Edward Jurkowitz (Univ. of Toronto), at the Institute of the History of Science and Technology, the Kharlov Physico-tech. Institute, and the St. Petersburg Physicotech. Institute, for “History of Superconductivity and Superfluidity in the Soviet Union, 1925-1960.”

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

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

AWARDS, HONORS, & APPOINTMENTS

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

Newly elected Fellows of the American Association for the Advancement of Science include Alan D. Beyerchen (Ohio State Univ.), Edward M. Constant, II (Carnegie Mellon Univ.), and Paul Kurtz.

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

Kostas Gavroglu (National Technical Univ. of Athens) has been awarded the 1992-93 Edelstein International Fellowship in the History of Chemical Sciences and Technology, for research at the Beckman Center for the History of Chemistry in Philadelphia and to the Edelstein Center for History and Philosophy of Science, Technology, and Medicine in Jerusalem.

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

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

John Dillard Hunley has been appointed a historian in the NASA History Division.
Melvin Kranzberg (Georgia Institute of Technology) has been named the first Honorary Lifetime Member of the National Association for Science, Technology, and Society.

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


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

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

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

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


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

A. Bowdoin Van Riper will teach in the Science, Technology and Society Program at Franklin and Marshall College in 1992-93.
Subscriptions are available for $10.00 annually from the Turkish Society for History of Science, P.O. Box 234, 80692 Besiktas, Istanbul, Turkey.

An original collection of Videotapes in the History of Science and Technology, produced by Smithsonian scholars, is now open for use. The collection was produced between 1986 and 1991 with funding from the Alfred P. Sloan Foundation and guidance from the Smithsonian Videohistory Program (SVP). Eighteen Smithsonian Institution historians produced 22 projects—for over 200 hours of tape—that cover a wide range of topics in American science and technology, primarily since the beginning of World War II. Topics include aeronautics and space exploration, computer development, medical technology, robotics, the Manhattan Project, small arms design and manufacture, slate quarrying, clockmaking, automotive manufacturing and management techniques, paleontology, and the conservation of endangered species. Tapes, transcripts, and finding aids are available for researchers, and copies are available for a fee. For further information, contact the Smithsonian Institution Archives, 2135 Arts and Industries Building, Smithsonian Institution, Washington, DC 20560; (202) 357-1420.

MEETING REPORTS

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

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

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

The need to contextually and historically situate the activity of watching, seeing, regarding (Jonathan Prude) was also a strong theme in the paper by Ludmilla Jordanova on Charles Bell’s depiction of the hand. Conversely, Roy Porter stressed the verbal dimension of eighteenth-century medicine and Sander Gilman analyzed the aniconicity of Freud. Joseph Rykwert, Thomas Sebeok, and Mihaly Csikszentmihalyi explored the psychophysiological dimension, the biosemiotic self, separate yet capable of endowing meaning to constructed things.
The body as apparatus, rooted in alchemy (Laurinda Dixon) or seen through an instrument, as in microscopy (Virginia Dawson), had late twentieth-century ramifications in the cyborg, virtual reality (N. Katherine Hayles), and the digitized animations of Hollywood (Daniel Maysy).

Roger Dworkin argued against ideals of perfection that seem to dictate the brave new world of designer human beings promised by reproductive technologies of the living and dying person, and noted genetic research, and called for Hollander, too, took up the concrete case material traces of clothes. Douglas there were as many bodies as cultures.

This experimental symposium, then, was the first step in asking what could the traditional disciplines dealing with the history of representation contribute to the modern technologies for imaging the body and vice versa. It also called for a different kind of cross-disciplinarity based on new, non-hierarchical epistemological paradigms. —Barbara M. Stafford

On 6-7 March 1992, the History of Science Department at the University of Oklahoma hosted a symposium, *Tradition, Transmission, Transformation: Ancient Mathematics in Islamic and Occidental Cultures*. The meeting was organized by Steven J. Livesey and F. Jamil Ragep, and was convened in conjunction with the Department's Rockefeller Foundation postdoctoral fellowship program. The symposium was organized around three topics. In the first session, on the transmission of mathematical work from Greek into Arabic, Sonja Brentjes (Universität Leipzig and Univ. of Oklahoma) spoke "On the Arabic Transmissions of Euclid's Elements," followed by Jan P. Hogendijk (Reeksuniversiteit te Utrecht), who discussed "Transmission and Transformation: The Case of Greek and Arabic Geometry." The second session focused on the transmission from Greek and Arabic into Latin and Hebrew. Included were presentations by Menso Folkerts (Universität München), "Regiomontanus' Role in the Transmission and Transformation of Greek Mathematics," Tony Lévy (CNRS, Paris), "Hebrew Mathematics in the Middle Ages," and Warren Van Egmond (Arizona State Univ.), "From East to West: The Sources and Streams of Arabic and European Algebra." The final session, on the cultural context of the transmission of mathematical texts, included papers by J. L. Berggren (Simon Fraser Univ.), "The Islamic Acquisition of Foreign Sciences: A Cultural Perspective," and A. George Molland (Univ. of Aberdeen and Univ. of Oklahoma), "Roger Bacon's Appropriation of Past Mathematics." The audience was drawn from colleagues and students from the University community as well as from California, the Midwest, and Pennsylvania. The symposium concluded with a reception (hosted by the University Libraries' History of Science Collection) and a banquet. The organizers gratefully acknowledge support by the Rockefeller Foundation, the University's Office for Research Administration, and the History of Science Department. —Steven J. Livesey

**PRIZE COMPETITIONS**

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

The Jerry Stannard Memorial Award (of $250) honors the author of a published or unpublished essay dealing with the history of *materia medica*, medicinal botany, pharmacy, or folklore of drug therapy before the year 1700. Competition for the 1993 award (to be presented on or about 15 May 1993) is open to graduate students and recipients of a doctoral degree conferred not more than three years before the competition deadline. Each entry: must be in English, French, or German; should be typewritten, double-spaced, and no longer than 50 pages, including notes, bibliography, and appendices; must be accompanied by a one-page abstract of the paper in English, the author's current curriculum vitae, and a letter of recommendation from an established scholar in the field; will not be returned; and must be received by 15 February 1993. Address all manuscript correspondence to the Stannard Award Committee, Department of History, Wescoe Hall 3001, The University of Kansas, Lawrence, KS 66045-2130.
NEH Division of Education Program

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

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

In 1991, the Division of Education Programs made its first awards under a similar special effort, the Special Opportunity in Foreign Language Education. This initiative is aimed at strengthening language instruction in the nation’s schools, colleges, and universities. Among other things, support is provided for projects to redesign foreign language programs for undergraduates. These projects often involve what is called “foreign languages across the curriculum.” Historians of science may find occasion to join with colleagues on their own campus to develop and offer upper-level courses in the language appropriate to the content of the course. French intellectual history, for example, might be taught in French.

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

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

Susan Greenstein, NEH Higher Education in the Humanities Program

ISIS Books Received

Quarterly Report to 15 February 1992

(continued from April issue)

Tymieniecka, Anna-Teresa (Editor). New Queries in Aesthetics and Metaphysics: Tense, Historicity, Art, Culture, Metaphysics, the Transnatural. Book 8: Phenomenology in the World Fifty Years after the Death of Edmund Husserl. (Analecta Husserliana, Vol. 37.) (Chiefly papers from the First World Congress of Phenomenology held in Santiago de Compostela, Spain, Sept. 26-Oct. 1, 1988.) xxv + 454 pp., illus., fig., bibl., index. Published under the auspices of The World Institute for Advanced Phenomenological Research and Learning.


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


Weiss, Burghard. Zwischen Physikaltheologie und Positivismus: Pierre Prevost (1731-1839) und die korpusalkinetische Physik der Gesen· Schule. (Europäische Hochschulschriften: Reihe 3, Geschichte und ihre Hilfswissenschaften; Band 353.) 467 pp., illus., apps., bibl., index. Frankfurt am Main/Bern: Verlag Peter Lang, 1988. $61.80 (paper).


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

(continued from page 29)
From Russian Conquest to Revolution. xiv + 192 pp., figs., tables, bibl., index. London/New York: Routledge, 1991. $49.95, Can$62.50.


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


Zambelli, Paola. L’ambiguità natura della magia: Filosofia, streghe, riti nel Rinascimento. (La Cultura.) xviii + 345 pp., index. Milan: IL Saggiatore, 1991. £60.00 (paper).

1995 Books Received
Quarterly Report to 15 May 1992


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

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

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


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

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


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


Bernabéu-Mestre, Josep; Olague de Ros, Guillermo; Peiro Cabrera, Glòria. Catálog del fons científic (segles XVI-VIII) de la biblioteca “Fernando de Léesos, Oriola. (Ciencia, 5.) 417 pp., bibls., indexes. València: Edicions Alfons el Magnànim; Institut Valencià d’Estudis e Investigació; Institut de Cultura Juan Gil-Albert, 1991. (Paper.)


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


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


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


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


Report) Royal Pratiche di costruzione e Genoa tra medioevo ed (Quaderni, 16.) 145 pp., illus., figs. 1990. (Paper.)


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


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


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


Hindman, Sandra (Editor). Printing the Written Word: The Social History of Books, circa 1450-1520. xiv + 332 pp., illus., figs., apps., index. Ithaca/London: Cornell University Press, 1991. $45 (cloth); $14.95 (paper).


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

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


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


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


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


Raven, Dieiderick; van Vucht Tijssen, Lieteke; de Wolf, Jan (Editors). Cognitive Relativism and Social Science. xxx + 297 pp., bibl., index. New Brunswick, N.J./London: Transaction Publishers, 1992. $29.95, £21.95.


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


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

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

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