

Newsletter



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HISTORY OF SCIENCE SOCIETY

The Bibliographer's Fund Grows

As of December 2006, we have raised, in cash and pledges, over \$150,000 toward endowing the HSS Bibliographer. As members will recall, the National Endowment for the Humanities awarded the HSS an NEH Challenge Grant to endow the bibliographer's position, so as to ensure that the *Isis Current Bibliography* and HST Database would be available to scholars for generations to come. Our "Campaign for the History of Science: Securing the Past for the Future" has 18 months remaining and this will be a crucial period. We will be turning to the alumni of history of science departments to provide leadership in the effort to reach the goal. Fred Gregory, past president of the HSS, has generously agreed to lead this portion of the campaign and we hope that all of the alumni "captains" whom he contacts will respond enthusiastically to his request. By reaching out to historians of science who trained at the same institution, we hope to reach our financial goal, as well as lift us toward the higher objective of enhancing community among historians of science.

There is much reason for optimism. In addition to Fred Gregory's help, the illustrious John Neu, who, for over 30 years, compiled bibliography after bibliography as a volunteer, has agreed to serve as honorary chairman for the campaign and Marc Rothenberg, our long-time, recently retired treasurer, has offered his services as the campaign's Director. Marc is one of those rare persons who can marshal the efforts needed to make the campaign a pleasant success.

The progress to date is remarkable, especially considering that past giving patterns saw the HSS typically take in \$2,000 to \$3,000 US per year. The response from our membership has been

overwhelming, and we hope that our members will continue in their generosity. (For a list of donors to the NEH campaign, please see page 17). Remember that your gift will not only secure the future of the HSS Bibliographer's position, it will also help the HSS further interest in the history of science by publishing the best work in the field; by recognizing exceptional scholarship through prizes, lectures, and awards; by hosting annual conferences; by supporting graduate students and recent Ph.D.s; by promoting awareness of the profession among the public and government officials; and through numerous other avenues. If you would like to contribute to the fund and secure a matching contribution from the NEH, or if you would like to give to any number of HSS programs, I hope that you will take a few moments and direct your browser to hsonline.org and click on "Donate to the Society" at the bottom of the page. Your gift will be much appreciated.

**Help us
complete our
Bibliographer**



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Notes from the Inside

By Jay Malone, Executive Director

With this new year, please allow me to share some news that is on – and over – the horizon. During our recent meeting in Vancouver, several events took place that will affect the Society in the near and distant future. Two graduate student gatherings – a “jam session” organized by HSS President Joan Cadden, and a job-hunt presentation by Don Opitz – were great successes. The students felt energized, and we hope to see renewed activity on our new graduate-student forum at hssforum.org. Our first new-attende reception in Vancouver was also well received, providing me a chance to meet many new members of the HSS (a personal high point). Finally, our long-range planning committee, chaired by Bruce Hunt, met for the first time and for over three hours discussed some of the many ideas that we will explore over the next 5-10 years.

In the nearer future, 2007 promises to hum with activity. It is the last full year of our NEH Challenge Grant, and we will spend the year improving relationships with the alumni of history of science programs. We have almost completed the paper work for a yearly fellowship in space history, which is being sponsored by the National Aeronautics and Space Administration's (NASA) history division, headed by Steve Dick. A new online syllabus sampler, coordinated by Committee on Education member, Julie Newell, is planned, as is a revised edition of our “Introduction to the History of Science in Non Western Traditions,” edited by Douglas Allchin and Robert DeKosky. The HSS Web site will feature a new look in 2007 including improved ADA compliance and enhanced navigability. The 07 meeting in Arlington, Virginia (across the river from Washington DC) should be one of our larger meetings, with an expected attendance in excess of 900. Program chairs Marsha Richmond and Anita Guerrini are eager to review proposals (the CFP is on p. 18) and Marc Rothenberg, our local arrangements chair, will ensure that this is a memorable meeting. Coinciding with that meeting is a new initiative to improve communication between officials in Washington DC and our members.

There is much more and none of it would be possible without our members. Thank you.

Correction: In the October 2006 *Newsletter* (“Physics Reaching Out,” p. 10), Charles Weiner’s name was spelled incorrectly. In addition, he left the directorship of the Center for History of Physics for MIT in 1974, not 1971. We regret the errors.

Reminder: The Isis Bibliography from 1975 to the present is available online with the Research Libraries Group (RLG). Members of the Society may access the RLG Web site and the History of Science and Technology Database (HST) through the HSS homepage at <http://hssonline.org>. RLG has assigned us “Y6.G19” as a “User Name” and “HSSDEMO” as a “Password.”

History of Science Society Executive Office

Postal Address

PO Box 117360
University of Florida
Gainesville, FL 32611-7360

Physical Address

3310 Turlington Hall
University of Florida
Gainesville, FL 32611

Phone: 352-392-1677

Fax: 352-392-2795

E-mail: info@hssonline.org

Web site: <http://www.hssonline.org/>

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Moving?

Please notify both the HSS Executive Office and the
University of Chicago Press at the above addresses.

HSS Newsletter

Editorial Policies, Advertising, and Submissions

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

The *Newsletter* is edited and desktop published in the Executive Office on an Apple system using Microsoft Word and InDesign. The format and editorial policies are determined by the Executive Director in consultation with the Committee on Publications and the Society Editor. All advertising copy must be submitted in electronic form. Advertisements are accepted on a space-available basis only, and the Society reserves the right not to print a submission. The rates are as follows: Full page (9 x 7.5”), \$400; Horizontal or Vertical Half page (4.5 x 7.5”), \$220; Quarter page (3 x 5”), \$110. The deadline for insertion orders and camera-ready copy is six weeks prior to the month of publication (e.g., 20 November for the January Newsletter) and should be sent to the attention of the HSS Executive Office at the above address. The deadline for news, announcements, and job/fellowship/prize listings is firm: The first of the month prior to the month of publication. Long items (feature stories) should be submitted six weeks prior to the month of publication as e-mail file attachments or on a 3.5” disk (along with a hard copy). Please send all material to the attention of Michal Meyer at the HSS address above (e-mail or disk appreciated).

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News and Inquiries

HSS Welcomes New Treasurer

The Society welcomes Rachel Ankeny, School of History and Politics at the University of Adelaide, as its new Treasurer, effective 1 Jan 2007. Dr. Ankeny is an alumna of the HPS program at the University of Pittsburgh and is a long-time member of the HSS. We will feature a profile of Dr. Ankeny in the April Newsletter.

da Vinci Manuscript: Content Developer Wanted

The British Library seeks a translator and online content developer to work on a project relating to the Codex Arundel, a notebook of Leonardo da Vinci. Contact: Katrina Dean, Curator of the History of Science, The British Library, 96 Euston Road, London, NW1 2DB. Tel: +44 (0)20.7412.7419.

Eureka Database Transition to OCLC FirstSearch

OCLC will be integrating the databases that currently reside on the Eureka service with OCLC's FirstSearch service. The Eureka databases that are moving are scheduled for availability on FirstSearch by June 2007. OCLC currently plans to provide a window of time during which databases will be available on both services. The following 10 Eureka databases will transfer to FirstSearch: •Anthropological Index, Royal Anthropological Institute •Anthropological Literature •Anthropology Plus •Avery Index to Architectural Periodicals •Bibliography of the History of Art •Chicano Database •FRANCIS (international humanities and social sciences) •History of Science, Technology, and Medicine •Index to 19th-Century American Art Periodicals •Russian Academy of Sciences Bibliographies (social sciences). FirstSearch features not currently provided by Eureka that will be available following this transition include: •Cross-database searching of up to three databases •Multiple interface languages (Arabic, traditional and simplified Chinese, English, French, Japanese, Korean, and Spanish) •Search options that include operators for proximity and plurals, stopwords and wildcards •Highlighting of search terms in search results •Display of worldwide library holdings for resources identified in OCLC and non-OCLC databases •Links to full text within the FirstSearch service. Visit www.oclc.org/firstsearch/ to learn more about FirstSearch.



The History of Science Society expresses its deep appreciation to Marc Rothenberg for his ten years of distinguished service as Treasurer and Executive Committee member, 1997-2006.

Proceedings of Museum Boerhaave Conference Available: "Who Needs Scientific Instruments?"

In October 2005 Museum Boerhaave organized a three-day conference on instruments and their users. To inform everyone who was unable to attend the conference, a compilation of 27 contributions was created, divided into three themes: Status of Instruments, Location and Organization of Instruments, and the Innovation of Instruments. The proceedings are available as: Museum Boerhaave Communication no. 315, "Who Needs Scientific Instruments?" Conference on Scientific Instruments and Their Users. Cost (including administration and postage): Euro 30 (Netherlands), Euro 35 (Europe), Euro 40 (Outside Europe).

To order, write to: Museum Boerhaave, P.O. Box 11280, 2301 EG Leiden, The Netherlands. Fax to: (+31) 071.512.0344, or e-mail Administratie@museumboerhaave.nl.

News from Division of History of Science and Technology

Anyone wishing to receive news of the Division of History of Science and Technology of the International Union of History and Philosophy of Science may register at <http://www.dhstweb.org/>.

The Gutenberg-e Prize and History of Science

Between 1999 and 2004, the American Historical Association awarded Gutenberg-e prizes to exceptional dissertations from various fields and topics in history. Each prize consisted of a \$20,000 fellowship to be used by the author to convert the dissertation into an electronic monograph of the highest quality to be published by Columbia University Press. The 2003 Gutenberg-e Prizes were awarded to projects that focused on women's history and the history of gender. Maria Rentetzi's dissertation "Gender, Politics, and Radioactiv-

ity Research in Vienna, 1910-1938," (Virginia Polytechnic Institute and State University, 2003), was one of those prize-winning works. The judges described Rentetzi's dissertation as "a complex, creative, and fascinating study" of women in Vienna working as independent researchers. The work includes documentary research, material culture and built environment analysis, and oral histories that examine the culture of radioactivity researchers during the early twentieth century. By legitimizing electronic publishing, the AHA hopes to change attitudes toward e-books. The program may also contribute to a new conception of books as a vehicle of knowledge. The first phase of this project, designed to last six years, is now complete. The AHA will announce future competitions.

Call for Papers/Manuscripts

Museum History Journal

The Museum History Journal, a new, refereed international publication of critical evaluative histories relating to museums, is soliciting manuscripts. The term "museum" will be interpreted to include not only a broad range of museum types, including natural history, anthropology, archaeology, fine art, history, medical, and science and technology, but also related cultural institutions, such as aquaria, zoos, botanical gardens, arboreta, historical societies and sites, architectural sites, archives, and planetariums. Articles of 25 to 30 manuscript pages are requested in all categories. Manuscript preparation guidelines will be available on the Left Coast Press, Inc. Web site at www.lcoastpress.com or from the editors. To be considered for the inaugural issue of the journal (January 2008), manuscripts should be submitted by 1 March 2007. All communications will be electronic. Send to hgenoways1@unl.edu.

NASA History of the Scientific Exploration of Earth and Space

In celebration of NASA's upcoming 50th anniversary, scholarly histories of NASA's activities in the scientific exploration of Earth and space have begun, organized by the History of the Scientific Exploration of Earth and Space (HSEES) program element. The primary objective of the HSEES program element is to engage, inform and inspire diverse public audiences by sharing historical knowledge about NASA's scientific exploration of the Earth and space, and by communicating NASA's unique contributions to the advancement of Earth and space science during the past 50 years. More information on the HSEES solicitation is at: <http://nspires.nasaprs.com/external/viewrepositorydocument/70450/E.5%20HSEES.pdf>.

Midwest Junto for the History of Science

The fiftieth annual meeting of the Midwest Junto for the History of Science will be held April 13-15, 2007, at Iowa State University in Ames, Iowa. The 2007 program committee invites paper submissions on any aspect of the history and philosophy of science, technology, or medicine. Graduate students are especially encouraged to participate, and by Junto tradition, lodging for graduate-student presenters will be partially subsidized. Junto organizers are working to make this fiftieth-anniversary meeting of the Junto particularly exciting, with some special events and celebrations of the Junto's history. A short abstract (100-150 words) of proposed papers or sessions should be submitted by March 1, 2007, to the program committee chair: Amy Bix, 633 Ross Hall, History Department, Iowa State University, Ames, IA 50011; abix@iastate.edu. Abstracts may be submitted electronically by e-mail or as attachment, or by paper mail. For further information, please contact Amy Bix at the address above or visit <http://www.history.iastate.edu/junto.shtml>.

Victorian Emotions

Victorian Studies seeks essays for a special issue on "Victorian Emotions." Possible topics include the role of the emotions in Victorian notions of psychology, physiology, science, history, politics, or art. This special issue will provide a forum for discussing Victorian concerns about the emotions that remain at issue today. Deadline: February 1, 2007. Direct all queries to guest editor Rachel Ablow (rablow@buffalo.edu). Essays may not exceed 8,000 words. Send hard copies of

each submission to: Rachel Ablow, Department of English, University at Buffalo, SUNY, Buffalo, NY 14260

Graduate Programs

M.A. & Ph.D. in History at Montana State University - Bozeman

The Master's program is built upon the faculty's strengths in the history of modern American, the history of the North American West, environmental history, the history of science and technology, and the history of women in a multi-cultural context.

Doctor of Philosophy Degree in History

— emphasizes the history of science and technology, environmental history, the history of the American West, and public history, and offers advanced students opportunities for interdisciplinary study. Applications are available at <http://www.montana.edu/wwwdg/apply.shtml>. For additional information visit: <http://www.montana.edu/history>. Please direct questions to Diane Cattrell, Graduate Program Coordinator: dscattrell@montana.edu. Tel: 406.994.4396.

M.A. in HPSM at Durham University

Durham University's Department of Philosophy, Centre for the History of Medicine and Disease (CHMD), and School for Health are now accepting applications for the 2007/08 class of their M.A. Program. The wide variety of topics include: History and Philosophy of Biology and Evolution, History and Philosophy of the Physical Sciences, History of Medicine and Public Health, Medical Ethics and Bioethics, Medical Humanities, History and Philosophy of Environmental Thought, History and Philosophy of Sex, Gender and the Body, History and Philosophy of Science and Religion, Metaphysics and Science, History and Philosophy of Psychology, Theories of Matter from Alchemy to the Electron. For further information: <http://www.dur.ac.uk/hpsm.ma/> or e-mail Matthew D. Eddy at m.d.eddy@durham.ac.uk or e-Lutz Sauerteig at l.d.sauerteig@durham.ac.uk.

New Program in Vienna

A new doctoral program, "The Sciences in Historical Context," has been launched at the University of Vienna, Austria. The program is based on a cooperative arrangement among five university faculties: Historical and Cultural Studies, Philosophy/Education, Mathematics, Physics, and Life Sciences. Current international collabo-

rators include history of science programs at the Humboldt University Berlin, The Goethe University Frankfurt/Main, The Ludwig-Maximilian University Munich, Cambridge University in England, and Arizona State University, as well as the Max Planck Institute for History of Science in Berlin. The aims of the program are to offer a structured interdisciplinary curriculum in History and Philosophy of Science with the collaboration of international visitors, and to make possible the joint supervision of dissertations by historians/historians and philosophers of science and natural scientists/mathematicians. For further information contact: <http://www.univie.ac.at/HPS/> or: <http://forschung.univie.ac.at/de/portal/initiativkollegs/>.

Resources

Opening of the Carl Gustav Hempel Papers

The papers of Carl Gustav Hempel are now open to research at the Archives of Scientific Philosophy, Special Collections Department, University of Pittsburgh Library System. The papers include biographical material, correspondence, research and lecture manuscripts, and teaching documents, mostly stemming from his post-immigration period in the U.S. For further inquiries, please contact the Archives at asp@library.pitt.edu.

Durham University Creates HPSM Network for Northeast England

Durham University's Department of Philosophy manages the new HPSM listserv, intended to create a network for researchers based in the north of England interested in topics broadly relevant to HPSM studies (and relevant topics in bioarchaeology, palaeopathology and human geography). At present, the list has over one hundred academic subscribers (both from Britain and abroad), as well as students reading for an M.A. or Ph.D. in HPSM-related subjects. To join, please send an e-mail to Matthew D. Eddy at m.d.eddy@durham.ac.uk.

Libraries and Collections

Wellcome Library Special Collections Move

The Library is returning to the refurbished 183 building. Special Collections, Rare Books,

IN MEMORIAM

Archives and Manuscripts, and Asian Collections have returned. Iconographic collections will be moved early this year. The rest of the Library will move over the Easter period. The Library will be closed from March 26, reopening on April 16, 2007. For further information: <http://library.wellcome.ac.uk>.

Lloyd Library Reopening

The Lloyd Library plans to reopen on 15 January 2007 after renovations. Further Information: <http://www.lloydlibrary.org>.

Web sites

Sixty Years of Science at UNESCO 1945-2005: Visit http://publishing.unesco.org/details.aspx?Code_Livre=4503.

World's First Global Science Museum TryScience Launches New Look: New features include, navigational tools to explore the site without leaving the home page, language translations that include German, Spanish, Chinese, Japanese, French, Italian, Arabic and Portuguese, enhanced, more-accessible content for parents, teachers, and scientists and engineers. Visit: <http://www.tryscience.org> or contact the Hall's public relations office at 718.699.0005, ext. 342.

History of Communication Research Online Bibliography Available: A searchable, online bibliography of published works on the history of communication research has been recently posted at <http://www.historyofcommunicationresearch.org>.

University of Michigan Launches site on 1918 Flu Pandemic. The Center for the History of Medicine at the University of Michigan Medical School has unveiled a Web site of primary source materials covering the 1918-1920 influenza pandemic. <http://www.med.umich.edu/medschool/chm/influenza/index.htm>.

Audrey Blyman Davis, former Curator of medical history at the Smithsonian Institution's National Museum of American History, died 29 August 2006 at her home in Baltimore, Maryland. She was 72. Dr. Davis was one of the pioneering female curators in the Department of Science and Technology at the museum. She earned a bachelor's degree (1956) in chemistry and education from Adelphi College, received a fellowship to study at the Harvard School of Education (1959-1960), and took her Ph.D. (1969) in the history of science from Johns Hopkins University.

Audrey taught science in the New York and Boston public school systems from 1956-1962. In 1967, she began a twenty-six year career

at the Smithsonian as curator of medical sciences. Among her many publications Davis was best known for her pioneering work, *Medicine and Its Technology: An Introduction to the History of Medical Technology* (1981) and *The Finest Instruments Ever Made: A Bibliography of Medical, Dental, Optical and Pharmaceutical Company Trade Literature* (1986) with Mark S. Dreyfuss.

From 1982 to 1985, Audrey was the Secretary of the History of Science Society and editor of the History of Science Society *Newsletter*, which she helped transform. She was a past president of the Smithsonian Institution's Women's Council.

In 1985 Audrey and her husband Miles Davis established

The Watson Davis and Helen Miles Davis Prize, "named in honor of the long-time director of the Science Service to honor books in the history of science that are directed to wide public audiences or to undergraduate teaching."

After her retirement from the Smithsonian in 1993, Audrey helped curate exhibitions for the Dr. Samuel D. Harris National Museum of Dentistry in Baltimore, Maryland. She was an avid book collector and active in many community organizations. Besides her husband of forty-six years, Audrey is survived by her two children, Laura Davis Beilstein and Alan Watson Davis, a sister, two brothers and four grandchildren.

— Judy M. Chelnick

Vancouver Meeting Notes: Memorial for Owen Hannaway (1939-2006)

"Humanists, Artisans, and Laboratories" was held in memory of Owen Hannaway, historian of chemistry and of early modern science at Johns Hopkins University from 1967 to 1999. Papers by Simon Schaffer, Mary Henninger-Voss and Pamela Smith explored themes that revealed Owen's intellectual range and reflected on what he taught us about how to place the history of science in its cultural context. Owen's diverse interests included the pedagogic origins of chemistry in the 16th century, the changes in material culture and economy that lay behind Georgius Agricola's woodcuts, the differing ideologies of Tycho Brahe and Andreas Libavius, and the laboratory culture of America's first research university. Pamela Smith's talk, "Butter and Mercury, Lizards and Vermillion: Artisanal Views of Nature in Early Modern Europe," examined two artisanal practices of 16th-century European metalworkers involving butter and mercury, in order to draw out the underlying principles by which these craftsmen organized their work and viewed their world. She developed the theme that workshop practices were underpinned by a broad and coherent body of beliefs about nature and the behavior of materials, a body of knowledge that we might think of as "vernacular science." Mary Henninger-Voss,

in "Mathematicians and the Word," explored the ways in which 16th-century mathematicians employed humanist histories of magical traditions in order to express the possibilities that mathematics might fulfill in understanding both God's creation and human creativity. Simon Schaffer's paper "Laboratory Work and the Spaces of the World" took us to Glasgow to examine the laboratory workplace and its changing relationship to philosophy. Thinking of laboratories not as fixed or stable places, but as nodes in dynamic global networks, Schaffer underscored

the relationship between the emergence of the research laboratory and the broader transformations occurring in the modern world. We were intrigued to see photographs of the 19th-century chemistry laboratory of the University of Glasgow (modeled on the medieval Abbot's Kitchen of Glastonbury Abbey), which survived to 1957 when Owen began as an undergraduate there. Schaffer drew attention to Owen's experiences and scholarly insights as he led us via Glasgow into a wide-ranging discourse on the history of chemistry and chemical pedagogy. Barbara Becker ended with a slide show and commentary on Owen's life and career.

— By Sharon Kingsland



PHOTO COURTESY: SHARON KINGSLAND

Awards, Honors, and Appointments

Marcia Allentuck, professor emerita at the Graduate Center, City University of New York, has been elected to the Royal Society of Literature in Great Britain.

Monica H. Green, Professor of History at Arizona State University, has been appointed as a member of the Commissione Scientifica dell'Edizione Nazionale "La Scuola Medica Salernitana." This international commission is charged with establishing critical editions and other scholarly tools for research on the so-called "School of Salerno," the most important medical center in Europe in the twelfth century.

The winner of the British Society for the History of Science 2006 Outreach essay, "Why should anyone

need to know about the history of science?" is **Michael Meyer**, a graduate student at the University of Florida. Her entry, along with further information about the competition, may be found at http://www.bsos.org.uk/bsos/outreach/essay_competition/.

Peter Pesic was recently awarded the Peano Prize for *Abel's Proof: An Essay on the Sources and Meanings of Mathematical Unsolvability* (MIT Press, 2003). He was also just elected a Fellow of the American Association for the Advancement of Science.

Marc Rothenberg is the new Historian for the National Science Foundation. His contact information is (e-mail) mrothenb@nsf.gov, (phone) 703.229.7729, (address) Office of Public and Legis-

lative Affairs, National Science Foundation, Room 1245, 4201 Wilson Boulevard, Arlington, VA 22230.

Robert E. Schofield has been awarded the Chemical Heritage Foundation's first Roy G. Neville Prize in Bibliography or Biography for his books *The Enlightenment of Joseph Priestly* and *The Enlightened Joseph Priestly*. The Neville Prize recognizes either a monograph that contributes to the bibliographic knowledge of the chemical and molecular sciences or a major biographical work in those sciences.

Michael M. Sokal (Worcester Polytechnic Institute, Emeritus) has been awarded the Lifetime Achievement Award for 2006 given by the Society for the History of Psychology (Division 26 of the American Psychological Association).

Jobs

The following announcements have been edited for space. For full descriptions and for the latest announcements, please visit <http://hsonline.org>. The Society does not assume responsibility for the accuracy of any item, and interested persons should verify all details. Those who wish to publish a job announcement should send an electronic version of the posting to newsletter@hsonline.org.

Worcester Polytechnic Institute invites applications and nominations for the position of Head of the Humanities and Arts Department, to begin 1 July 2007. Review of applications will continue until the position is filled. Applicants should send a letter of application with résumé to: Humanities and Arts Head Search Committee, Office of Human Resources, Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA 01609-2280.

The Center for Society and Genetics at UCLA seeks a co-director. Applicants should send a letter of application, c.v., statement of research and teaching interests, names of referees, and samples of scholarship to: Chair, CSG Co-Director Search Committee, UCLA Center for Society and Genetics, Box 957221, 1323 Rolfe Hall, Los Angeles, CA 90095-7221. For more information contact Norton Wise: nortonw@history.ucla.edu, or Ed McCabe: emccabe@mednet.ucla.edu.

Chemical Heritage Foundation invites applications for the position of Historian in the Roy Eddleman Institute for Interpretation and Education (REI). Applicants should e-mail cover letter, c.v., and contact information for three references to: historiansearch@chemheritage.org. Review of applications will continue until the position is filled. Further Information: <http://www.chemheritage.org>.

Oregon State University invites nominations and applications for appointment to the Thomas Hart and Mary Jones Horning Professorship in the Humanities (to be filled by an historian of science). Nominations and applications should be sent to: Paul Farber, Chair of the Horning Search Committee, Oregon State University, Department of History, 306 Milam Hall, Corvallis, OR 97331-5104. Further information: <http://oregonstate.edu/cla/history/>. Applications must be received by 31 January. **See advertisement on p. 16.**

University College London seeks two full-time historians of medicine. Minimum requirements are a Ph.D. in hand, and a track record of publication in the proposed field of research. Applications are due by 9 February 2007,

and may be submitted electronically or by post. Send letter outlining previous research and teaching and lines of future research, together with a c.v and the details of three persons who can be contacted for letters of reference, to Harold J. Cook, The Wellcome Trust Centre for the History of Medicine at UCL, 210 Euston Rd., London NW1 2BE, UK; or to h.cook@ucl.ac.uk. Further information: <http://www.ucl.ac.uk/histmed/news/index.html>.

Rutgers University invites scholars at the beginning of their career studying the history of electrical technology and computing to contact the IEEE History Center to be considered for a paid Internship at the Center's offices on the Rutgers University campus. To apply, mail a c.v. along with a cover letter describing the proposed project by 1 March 2007 to: Internship, IEEE History Center, Rutgers, The State University of New Jersey, 39 Union Street, New Brunswick, NJ 08901-8538. Further information: http://www.ieee.org/organizations/history_center/fin_support.html.

Cornell University offers a two-year, post-doctoral fellowship for a candidate with an outstanding record in the area of science & technology studies. A Ph.D. in science & technology studies or a related field is required. To apply, send a letter of application, c.v., writing sample, and the names and addresses of three references to: Mellon Fellowship Search, Department of Science & Technology Studies, 306 Rockefeller Hall, Cornell University, Ithaca, NY 14853. Review of applications will begin immediately and continue until the position is filled. Further information: <http://www.sts.cornell.edu/>.

Stony Brook University's Women's Studies Program invites applications for the position of Chair, effective 1 September 2007. To apply, send a c.v., statement of research and teaching interests, samples of publications, and three letters of reference to: Search Committee, Women's Studies Program, 105 Old Chemistry, Stony Brook University, SUNY, Stony Brook, NY 11794-3456. Further information: <http://www.stonybrook.edu/cjo>.

Grants, Fellowships, and Prizes

The following announcements have been edited for space. For full descriptions and for the latest announcements, please visit our Web site (<http://hssonline.org>). The Society does not assume responsibility for the accuracy of any item, and potential applicants should verify all details, especially closing dates, with the organization or foundation of interest. Those who wish to publish a grant, fellowship, or prize announcement should send an electronic version of the posting to newsletter@hssonline.org.

Lawrence Memorial Award

The annual Award (\$2,000) is given to support travel for doctoral dissertation research in systematic botany or horticulture, or the history of the plant sciences, including literature and exploration. Professors are urged to nominate students who have achieved official candidacy. Letters of nomination and supporting materials, including seconding letters, should be received by the Committee no later than 1 May 2007 and should be directed to: Dr. R. W. Kiger, Hunt Institute, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213-3890 U.S. Tel. 412-268-2434.

The H. Richard Tyler Award

This award sponsored by the American Academy of Neurology (AAN) encourages historical research using the AAN Rare Books Collection at the Bernard Becker Medical Library at the Washington University School of Medicine in St. Louis, MO. The award provides up to \$1,200 for research expenses. Applications can be submitted online from the AAN Web site at: <http://www.aan.com/awards>. For more information, visit the Archives and Rare Books section of the Becker Library Web site at <http://becker.wustl.edu/aan>.

The Bakken Library and Museum

The Bakken Library and Museum offers two kinds of assistance for the purpose of facilitating research in its collection of books, journals, manuscripts, prints, and instruments: Visiting Research Fellowships and Research Travel Grants. Visiting Research Fellowships (up to \$1,500) are to be used to help to defray the direct costs of conducting research. Deadline: 16 February 2007. Research Travel Grants up to a maximum of \$500 (domestic) and \$750 (foreign) are to be used to help to defray the direct costs of conducting research. Contact: Elizabeth Ihrig, Librarian, The Bakken Library and Museum, 3537 Zenith Avenue So., Minneapolis, MN., 55416; tel. 612-926-3878 ext. 227, fax. (612) 927-7265, or e-mail Ihrig@thebakken.org.

The Victor and Joy Wouk Grant-in-Aid Program

California Institute of Technology Grants-in-Aid offers research assistance of up to \$2000 for work in the Papers of Victor Wouk in the Caltech Archives. The Maurice A. Biot Archives Fund and other designated funds offer research assistance up to \$1500 to use the collections of the Caltech Archives. Please visit: <http://archives.caltech.edu>. Applications are reviewed on January 1, April 1, July 1 and October 1 of each year.

The University of Oklahoma Travel Fellowship Program

The Andrew W. Mellon Travel Fellowship Program helps visitors to make use of the University's History of Science Collections. Proposals from scholars at both predoctoral and postdoctoral levels are evaluated continuously upon receipt, and funds awarded shortly after the decision is made. E-mail: kmagruder@ou.edu or mogilvie@ou.edu. Web site: <http://libraries.ou.edu/etc/histsci/mellon.asp>.

Grants in Aid for History of Modern Physics

The Center for History of Physics of the American Institute of Physics has a program of grants-in-aid for research in the history of modern physics and allied sciences and their social interactions. Grants can be up to \$2,000 (for reimbursement of expenses for travel and subsistence to use the resources of the Center's Niels Bohr Library in College Park, Maryland, or expenses to tape-record oral history interviews or microfilm archival materials). Apply to: Spencer Weart, Center for History of Physics, American Institute of Physics, One Physics Ellipse, College Park, MD 20740. E-mail: sweart@aip.org. Phone: 301.209.3174. Fax: (301) 209-0882. Deadlines: 15 April, 15 November. <http://www.aip.org/history/>.

INA Grant-in-Aid Program

The International Neuropsychopharmacology Archives (INA) announces the availability of grants of up to \$1,500 to support research at the INA at the Vanderbilt University Medical Center Archives, Nashville, Tennessee, U.S. Grants will be given four times a year. Deadlines are: 1 March, 1 June, 1 September, 1 December. Completed applications should be sent by the deadline to: INA Grant-in-Aid Program, c/o CINP Central. Office, 1608 17th Avenue South, Nashville, TN, 37212, U.S.

2007 Jerry Stannard Memorial Award

The \$1,000 award is given by the University of Kansas for an outstanding published or unpublished scholarly study in the pre-1700 fields of *materia medica*, medicinal botany, pharmacy, folklore of drug therapy, and the bibliography of these areas. The competition is open to graduate students and to recent recipients of a doctoral degree. Manuscripts must be in English, French or German, and should include a one-page abstract in English, a current c.v., and a letter of recommendation from an established scholar in the field. Deadline: 15 February 2007. Address manuscripts and correspondence to: The Stannard Award Committee, Attn: Prof. Victor Bailey, Dept. of History, University of Kansas, Wescoe Hall, 1445 Jayhawk Blvd. Room 3001, Lawrence, KS 66045-7590, U.S.

Ph.D. Studentships: Wellcome Trust Centre for the History of Medicine

The Wellcome Trust Centre anticipates being able to offer two or three research studentships worth about £19,000 p.a. plus the payment of "home" fees for Ph.D. studentships/scholarships in the History of Medicine at University College London. Inquiries may be made to the Centre's Graduate Tutor, Helga Satzinger, h.satzinger@ucl.ac.uk. For further information and application forms, please contact Adam Wilkinson, ucgaawi@ucl.ac.uk. Application deadline is 31 January 2007. For further information: <http://www.ucl.ac.uk/histmed>.

NYAM Student Essay Prize

The New York Academy of Medicine invites entries for the third annual New York Academy of Medicine Student Essay Prize, awarded to the best unpublished essay by a graduate student in a medical, nursing, pharmacy, or public health program in the United States. The winner will receive \$500, and the winning essay will receive expedited review for possible publication in the *Journal of Urban Health*. For more information, please call us at 212.822.7314, or visit: <http://www.nyam.org/grants/studentessay.shtml>, or e-mail: historyessay@nyam.org.

Scientific Instrument Society Research Grants

The Scientific Instrument Society awards small grants for research on the history of scientific instruments. The grants are worth up to £500 each, and the Society will commit a maximum of £1,500 in the calendar year. Grants may be used to cover any costs of research, including travel and photography. Applications can be submitted at any time and will be reviewed by the Society's Committee. Successful applicants are expected to report on the results of their research to the Society, either at a meeting or through publication in the Society's *Bulletin*. Application forms and further details are available at <http://www.sis.org.uk/grants.htm>.

Beckman Center Visiting Scholar Program Travel Grants

The CHF Beckman Center Visiting Scholar Program offers grants to help defray the direct costs of conducting research in the Chemical Heritage Foundation's Othmer Library and archival, artifact, and art collections in Philadelphia. Travel Grants of approximately \$750 per week can be used to cover travel, lodging, and other research expenses including photocopying. Applicants must electronically submit a c.v., a one-page statement outlining the research project, the amount of time they will need, and materials to be used, and one letter of reference sent directly from the source to CHF. There is no deadline for applications. For more information visit: <http://www.chemheritage.org> or e-mail: travelgrants@chemheritage.org.

An Educational Humour

Graeme Gooday and the Teaching of History of Science

WORKSPACE

From Gary Larson cartoons to terrible puns, Graeme Gooday aims to educate. “Humor helps to open up the possibility to students that science’s past is more complicated and interesting than they might expect. Cartoons offer an unthreatening and (usually!) entertaining way of launching a class discussion.” The stage and the classroom are inseparable for Gooday, who likens teaching to a branch of theater. “The dedication that goes into teaching is comparable to the dedication that goes into stage productions; it has somehow got to be both painstakingly prepared and yet also spontaneous.” It’s humor with a point. For Gooday, education is not about passing on wisdom, but about nurturing active learners who can think for themselves.

Achieving that tricky balance of effort and ease won Gooday the 2006 Joseph H. Hazen Education Prize for excellence in teaching. Since 2000, this senior lecturer in the history and philosophy of science at the University of Leeds, U.K., has organized conferences, both national and international, on teaching; has published papers on effective pedagogic practices, including the pitfalls and pleasures of teaching science students; and has helped formulate standards for the teaching of undergraduate history of science, technology, and medicine in British universities.

Originally, Gooday planned on a career in physics. A stint as a lab assistant between high school and university brought home the gap between science as study and science as practice. “Afterwards I was suspicious of the way that scientific pedagogy gave people entirely misleading views about how science worked,” Gooday says. Halfway through an undergraduate science degree at Cambridge University he discovered a discipline called history and philosophy of science. Unable to imagine himself as a future physicist, but still fascinated by science, Gooday swapped the lab for the library. “I was taken by the critical angle on science. I found that the experience of working in a physical laboratory was much less tidy and convincing and much more full of flaws and problems than [described in] any of the textbooks I read.” In the lab Gooday’s numbers never came out right. Answering the why of that led him into the nineteenth century and thence to graduate school at the University of Kent at Canterbury, where he wrote a thesis on the founding of physics-teaching laboratories in Britain. “I was trying to explain where this peculiarly quantification-obsessed culture of physics education came from in the 1860s and 1870s, when students went out measuring and were told there was a fixed right answer to everything.” Gooday found that physics pedagogy had originally set out not so much to mimic the practice of science, but to make it easy to decide who was right and who was wrong.

Researching the teaching of science in the late Victorian and Edwardian period gave Gooday a strong sense of the history of education, one relevant to his own teaching. “Unless you understand how people are trained you can’t properly understand what their preoccupations and agendas are, and what they think a problem is,” he says. “Very different styles of teaching can produce very different results.” Shaping teaching to the different experiences students bring with them, whether from

science, medicine, or the arts, makes for more meaningful teaching. For that reason it is technology, rather than science, that now plays the largest role in Gooday’s teaching, as his students find it easier to evolve views on airplanes or computers compared to atomic theory or pangenesis.

Both Gooday’s parents were high-school teachers, and both jovially warned him of the perils of taking up teaching as a profession. But growing up with their passion for teaching, later reinforced by an extra-curricular initiation in performance stagecraft, made education a natural career choice. On the first day of a class on gender and science, Gooday might, for example, begin by asking his students, ‘Has science been dominated by white men? What do you think?’ Such an approach, he says, helps students think both of the tellingly uncommon counter examples like Marie Curie and of their own multi-faceted experiences of science in the classroom and laboratory. “They already have half formed inside their heads the basic phenomenon of gender, but they need to articulate it in their own words to appreciate the reality of it.”

Students learn best by listening and talking to their peers, Gooday believes. “I don’t think it’s ever effective to teach by going into a class and dogmatically declaring ‘here’s the topic and this is the big issue.’” Evolving student views requires a delicate balance of authority and encouragement, linked by humor. Gooday maintains that a student usually wants assurance that a teacher knows what he or she is talking about. On the other hand, teachers can’t afford to overplay their own authority, otherwise their students will never get far beyond mimicry. “When I began teaching in 1989 I was too decisive about what was the right answer,” says Gooday. “Back then I thought there had to be a clear punch line, but now I reckon that’s not the best approach. If students think all they have to do is guess what the teacher thinks is the right answer, or find out somehow what it is that you want to hear, then you end up in a game that’s detrimental to their personal development. The point is to encourage them – with your authority working in their favor – that they are good, intelligent people, who are fully capable of working out what good answers might be. They can’t really be educated effectively unless they gain the conviction that they have views and understandings worth sharing with others.”

‘What’s technology?’ is a typical question Gooday will use to start a class in history of technology, both as a way to start a conversation and to gauge class participants’ world views. ‘So does all technology bring us progress then?’ he’ll ask later. “A few will nod, and others will look at me, cautiously formulating their thoughts; so I’ll ask them what they think about nuclear weapons and landmines, and let them draw their own conclusion about whether technology has a fundamentally troubled relationship with progress.” With the right sorts of cues students can work out considered views, without their teacher’s opinion getting in the way.

With its links to chemical weapons, nuclear warfare, multinational drug corporations, and genetically modified crops, science seems no longer so cool for many students, reflects Gooday on the changing nature of the audiences he has taught




PHOTO BY MICHAEL MEYER

in the past seventeen years. “They seem increasingly unimpressed by it, and some even quite alienated: the challenge is to put that process of disenchantment in reverse. Fortunately, learning the history of science doesn’t require students to love science. Maybe the history of science will give young people a way of articulating their concerns about science by showing how in the past it has changed in response to criticism from both scientists and the public.” Although the pragmatic need to get swiftly through a crowded curriculum can lead scientific pedagogy to distort some major issues, Gooday feels the gap thereby opened up between pedagogy and practice creates a vital role for history of science in science education. “It opens up to students a view of science as constantly changing and a view of themselves as potential future participants in that process of change.”

History of science is not guaranteed a future, believes Gooday, unless historians of science go out of their way to promote it to the next generation. “It takes effort, time, and trouble. The old stories about great male European heroes like Einstein, Newton and Darwin don’t have the same pull for young people.” One example of that effort is the “Bone Trail” project, organized by Emm Barnes, Gooday’s predecessor as Chair of the British Society for the History of Science (BSHS) Education and Outreach Committee. In this lively classroom enterprise, high school students reconstruct dinosaurs from copies of their bones, and learn that there is a lot of important and interesting interpretive leeway in trying to reconstruct the past from its vestigial remains.

“Our job is to attract people to learn our subject,” says Gooday. “History of science is not a default option. No one who is asked at age five what they want to do is likely to say, ‘I want to be a historian of science.’” A related challenge facing the discipline is the comparative and growing popularity of history of medicine and history of technology. Without a case for relevance, history of science may well lose out. “These weird notions of pure science as driving civilization and technological success are largely a twentieth-century myth: we all know now that much so-called “pure science” in the Cold War was supported by military funding. We have to get away from the concept that science was ever pure – at the risk of antagonizing scientists who believe that even if it wasn’t, it ought to have been.” Presenting science as having always been part of a wider political economy makes it easier for outsiders to appreciate what science is about and why it matters.

A committed member of the BSHS, Gooday has been in turn a council member, treasurer, and a committee member of the education section, not to mention secretary of the history of science section of the British Association for the Advancement of Science, and now chairs its outreach group. “I thrive in organizations,” says Gooday, “I like teamwork.” For example, choral singing provides a counterbalance to the isolation of teaching. “As a singer in a chorus you become part of the team and learn to share things,” says Gooday. “I think it’s vital that teachers regularly put themselves in a position where they learn something new from somebody else. The further you get in your career the harder it is to reconstruct what it’s like to have the extraordinary experience of encountering history of science for the first time. As a teacher you have to remind yourself of what it is to be part of the learning process. Choral singing does that for me.” As a keen collector of satirical Victorian songs on science and technology, he entertains in his rare idle moments the prospect that one day a class of his students – or perhaps an HSS conference panel? – will sing some of them to rediscover the humorous possibilities that the new-fangled telephone and electric light presented to out great-great-grandparents. 

– By Michal Meyer

The HSS

would like to thank the following donors for their generous support of graduate students at the 2006 annual meeting. Over \$1,200 was raised to subsidize graduate student costs.

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Reproducing History

Robin Marantz Henig and the Children of Knowledge

When Robin Marantz Henig set out in 2000 to write a book about the world's first test tube baby, she was surprised to find an even more complex history than she had remembered, a story both ambiguous and archetypal. The story of the early days of in vitro fertilization research is, she discovered, about pushing the boundaries of science and helping people. It's about a scientist attempting to regain lost stature, who may (or may not) have created the first successful test tube pairing of egg and sperm. It's about a woman desperate for a baby, and the court case she instigated when she didn't get that baby. And it's about the domestication of technology, of making the unnatural natural.

Pandora's Baby: How the First Test Tube Babies Sparked the Reproductive Revolution reached the bookstores in 2004. The book won the History of Science Society's 2006 Watson Davis and Helen Miles Davis prize for the best book aimed at a broad audience, and led to a PBS documentary called *Test Tube Babies*. Both of Henig's most recent books, *The Monk in the Garden*, and *Pandora's Baby*, grew out of contemporary concerns: the sequencing of the human genome in the late Nineties for the *Monk in the Garden*; embryonic stem cell research for *Pandora's Baby*. "I feel that if we clearly understand a moment in history that is similar to the moment we are going through right now, then we will be able to deal with the current iteration of whatever that is," says Henig.

Focusing on one story, and all the issues involved in that historical period, will help us make better decisions now, she believes. Decisions that today involve designer babies, cloning, and gene therapy.

Louise Brown, the world's first test tube baby, was born in 1978, but Henig's history begins in 1973 with a woman named Doris Del-Zio and her overwhelming desire for a child. More than twenty years after the events, Del-Zio refused Henig's request for an interview, but her husband, John, spoke about the IVF attempts, and the court case that followed after Raymond Vande Wiele, chairman of obstetrics and gynecology at Columbia Presbyterian Medical Center, ordered the destruction of the contents of the test tube that contained the Del Zio's eggs and sperm. Landrum Shettles, the Columbia Presbyterian doctor who attempted the IVF procedure, also spoke to Henig. At the time, Shettles was in a nursing home and only months away from dying, burdened by a sometimes erratic memory. As a journalist, Henig would rather talk to people than pore over old papers, but in the case of her book research she found interviews less useful than the documents. Historical records, such as depositions, were always more reliable than people's memories. "It was sobering to see that the archival research was where the accurate information was," she says. "People's memories are colored by their preferences, by what they hope to remember, and by the passage of time."

Henig remembers her time in the archives as a slog. Boxes and boxes of legal documents were brought to the national archives in New York. Henig set up a desk and paid for her xeroxing in bulk as she sat with nine huge boxes of court records. To get the flavor of the times and

the kind of concerns that made the news, Henig dug out old newspapers and magazines from libraries. Being the first to accomplish something ensures a person a place in history, so while the name of Louise Brown stuck in people's minds, much of the prior story had slipped away. Shettles, an IVF pioneer on the verge of retirement and looking to make good on a career long on promise and short on results, was a part of that story. "It's not deep dark history, it was just in the Seventies," says Henig, "but even so things were still hidden away."

In explaining her lifelong fascination with science, Henig recalls that her mother always expressed amazement at the laws of nature. "We were secular

"The federal government hasn't learned how to promote this kind of promising research. They've abrogated [responsibility] yet again, and this time left it to the states. It seems again to be something that the NIH is not going to take the lead on. We haven't learned; I think new technology goes through this arc every single time."

Jews," she says, "so God was never the explanation for how or why — science was." Henig's brother went on to study medicine and Henig grew up thinking of science as an answer to how the world works. At Cornell University she majored in English and then went for a degree in journalism at Northwestern. A career as a magazine staff writer turned into freelance writing over twenty years ago, after the birth of her two daughters, Jessica and Samantha.

Communicating science turned into a career that began with books on health, babies, and aging. "Sometimes my mother will tell me, 'that was an interesting article; I didn't understand it.' I feel then as though I didn't do my job, which is to make my mother, who is interested and smart but uneducated, understand what I'm talking about. I want people

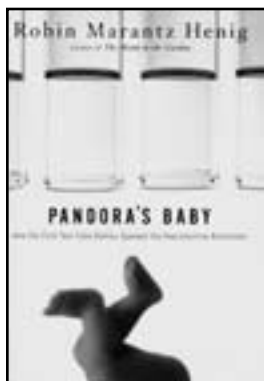
not to shy away from science just because it is science. The concepts can be pretty straightforward — if you explain it clearly then people should not only understand it but get excited about it." Here, adds Henig, a cautious optimism may be in order. "I'm seeing little bits of movement in the direction of making science seem less scary. There's a movement towards putting science into theatrical productions and into TV shows. If that keeps going then maybe people won't turn off science quite so quickly, and they might be a bit more rational when looking at some of these complex issues."

While Henig has no emotional stake in the natural versus unnatural argument in baby making, she finds the discussion fascinating. "That's what makes reproductive technology so interesting— here we are imposing a harsh scientific reality onto something that is the essence of what makes us human." During the writing of the book she found herself a little more sympathetic to the 'slippery slope' point of view. "It did make me see that there was a certain

value to that argument, because we wouldn't be talking about cloning or designer babies if we hadn't taken that first step of perfecting IVF. One thing does lead to another. The question is at what point do you start imposing restrictions on it?" Henig rejects the position of bioethicist Leon Kass, who wanted restrictions from the very beginning, and who wrote that IVF was part of a "new holy war against human nature." Indeed, Henig uses Kass to draw a connection between the old debate on IVF and the current debate on cloning and designer babies. "He was the same individual making the same complaint [then and now], and sometime using the same language. He's a hard liner and he's unusual in



PHOTO BY SAMANTHA HENIG



that he didn't ease up in his feelings about IVF; the kind of guy who objects to the morality of eating ice cream cones on the street."

Doris del Zio told the court in 1978 that Vande Wiele killed her baby. "The emotional content of that trial was also due to its timing with the birth of the first test tube baby," says Henig. One week after the trial began, the contents of the destroyed test tube were given extra reality with the arrival of a healthy Louise Brown — extinguishing fears that IVF, by treading in the domain of God and nature, would lead to monstrous births. Loaded language

still drives much of the emotion about reproductive technology, Henig says. "Today the first mistake was calling embryonic stem cells embryonic. When

you ask people what an embryo is, they think in terms of a fetus, not a four- or eight-cell blastocyst." Therapeutic cloning also brings up worrying images of humans grown for body parts. Says Henig: "Science lost from the beginning by having the wrong terminology."

The Del-Zios won the court case against Vande Wiele. Soon IVF moved into mainstream science in America, with Vande Wiele one of its leading proponents and co-director of New York's first IVF clinic.

Cloning will follow the same route as IVF, Henig believes, remaining apart from mainstream federally funded American research until success produces

"Today the first mistake was calling embryonic stem cells embryonic. When you ask people what an embryo is, they think in terms of fetus, not a four- or eight-cell blastocyst... Science lost from the beginning by having the wrong terminology."

irresistible forces. "Once there are good results, a cure for diabetes or even a healthy clone, I think the objections will start to fade away. I don't think it will be common, as there aren't that many reasons to work really hard to clone a baby." A successful new technology gradually becomes part of life, accepted and mostly unquestioned. "Fifty years from now," predicts Henig, "people won't worry about it much."

Yet to the extent that we've learned any lessons from the mainstreaming of IVF, we've learned the wrong ones, argues Henig. Like embryonic stem cell research, IVF never received any federal money. Rather than regulation, attempts were made to impose sanctions on embryonic stem cell research, in an effort, says Henig, to avoid dealing with the issue. "The federal government hasn't learned how to promote this kind of promising research. They've abrogated [responsibility] yet again, and this time left it to the states. It seems again to be something that the NIH is not going to take the lead on.

We haven't learned; I think new technology goes through this arc every single time." The regulatory void gave the marketplace a major role in shaping IVF. To increase pregnancy success rates fertility clinics put more embryos in women's uteruses, leading to more multiple births. "Sometime these commercially driven decisions are bad scientific decisions," Henig says. And while national bioethics commissions have traditionally provided thoughtful advice in an attempt to balance research and restrictions, their advice is mostly ignored, she adds. "I don't think we've learned any lessons from that, either. We are going to be reactive, no matter what."



— By Michal Meyer

Request for Prize Nominations

(Book Nominations are due 1 April and can be made online at <http://hssonline.org> — click on Society Awards)

***Nathan Reingold Prize* (formerly known as the Schuman Prize) for the best graduate-student essay (deadline 1 June)**

***Margaret W. Rossiter History of Women in Science Prize* for the best book on women in the history of science. (Books published from 2003 to 2006 are eligible)**

***Joseph H. Hazen Education Prize* for**

exceptional educational activities in the history of science (Deadline 1 April)

***Watson Davis and Helen Miles Davis Prize* for the best book in history of science intended for a broad audience, published 2004-2006**

***Pfizer Award* for the best book aimed at a scholarly audience in history of science, published 2004-2006**

***Sarton Medal* for exceptional scholarship over a lifetime. Nominations are due 1 February.**

A Life in Mosaic

Mary Jo Nye Wins Sarton Medal

Mary Jo Nye's academic life was formed at the University of Wisconsin-Madison during the turbulent Sixties. She studied at a time when externalism in history of science had shifted from being thought of as Marxist to being considered exciting. Her first research trip to France coincided with the outbreak of the 1968 revolution, transportation strikes, and student-occupied universities. "My generation was the Vietnam generation," says Nye. "There was a shift as more and more people began looking at the ways government fund some sciences and not others, and why they fund them. A lot of people became interested in studying the Manhattan Project and its aftermath."

A career that began with the study of the French physical sciences expanded to England, Germany, and then to the United States. Nye's publications include *Science in the Provinces* (1986), *Blackett: Physics, War, and Politics in the Twentieth Century* (2004), papers on Linus Pauling and Michael Polanyi, and editing projects, such as volume 5 of the new *Cambridge History of Science* (2003). Her career led her from the University of Wisconsin to the University of Oklahoma, and then to Oregon State University as the Horning Professor of the Humanities and Professor of History. Most recently, it led her to Vancouver, British Columbia, where Nye was awarded the 2006 Sarton Medal, the Society's highest award, at the HSS annual meeting.

Along with many other students studying history of science in the Sixties, Nye's background lay in science. Starting at Vanderbilt University, she finished her chemistry undergraduate degree at Wisconsin. Like many science undergraduates of the time, she took a history of science course as part of the chemistry degree. "That's part of the tradition that goes back to the nineteenth century," Nye says, "when philosophy of chemistry included history of chemistry and was part of standard chemistry. Professors thought it was important for their students to study the history of chemistry as part of what we would call chemical education." Such courses continued to be a regular feature until after World War II. Nye was part of the last generation offered history as part of science. Now, she says, with history rarely making an appearance in science curricula, science students need to be taught science as a part of history.

History of science began serendipitously for Nye. In her senior year she chose history of chemistry class (with Robert Siegfried) over inorganic chemistry and liked it. After graduation Nye worked in a spectroscopy lab over the summer and thought about job options – mainly chemistry and science journalism. She bumped into her history of chemistry teacher on campus, who, of course, asked what she was doing. Nye told him she had made no decisions yet, and Siegfried suggested that she enter the history of science program. Nye enjoyed the Master's program so much that she went straight into the Ph.D. track as Erwin Hiebert's student.

"Erwin was remarkable in terms of his influence on me and a lot of other people. It was a while before I caught on to the fact that there were a lot of us, a succession of women over the years. The proportion of his students who are women was quite high (one of his early students was Carolyn Merchant). He gave us confidence, and he treated women like he treated the men. He always supported us in what we did, and I'm talking about the Sixties and early Seventies." Hiebert had the habit of holding seminars at his home, part of the German tradition, says Nye, of the "doctorfather." Discussions ranged widely. Hiebert's own interests encompassed all kinds of chemistry, all kinds of physics, the intersections between the two, philosophy of science, religion, figures such as Ernst Mach, Max Planck, and Lise Meitner, and literature (Nye's minor field). "What we learned from him was the whole gamut of European science and British science," she says. "I found that working with Erwin, I could do all those things and pick and choose

among them. I didn't think of myself as specialized – Erwin's breadth of interest is so great that he gave that breadth to us." It's a world view that extends to music. At the 2006 Vancouver meeting Hiebert and his wife, Elfrieda, a musicologist and director of the Chamber Music Program at Harvard University, each gave a talk on the links between science and music to an audience that included some of their ex-students. For Hiebert's sixtieth birthday in 1980, *Historia Mathematica* dedicated an issue to him, with contributions by ex-students Joan Richards and Roger Stuewer. In 1992 Richards, Stuewer and Nye published a Festschrift volume, which they co-edited, *The Invention of Physical Science: Intersections of Mathematics, Theology and Natural Philosophy since the Seventeenth Century. Essays in Honor of Erwin M. Hiebert*.

When Nye began her graduate career, Wisconsin expected many of its history of science students to work in the physical sciences. "When I came in, the emphasis was on the ancient, medieval, early modern, and 18th century; those of us doing work in the nineteenth and twentieth centuries were a minority. There was all this talk about the internal and external debate, and a lot of that was rooted in the politics of the Fifties. If you were interested in how economic circumstances and social need determined how science was done and how institutions operated, that was consistent with Marxism and materialism. In the Fifties that was regarded as left wing." Nye's generation, the Vietnam generation, gradually produced a shift in how science was studied historically. Her own work started out fitting within the internalist tradition, but soon included a larger perspective. "I've continued to be interested in the political views of scientists and the way political regimes support or don't support certain kinds of science. I think a lot of people identify Wisconsin in the Sixties with the internalist approach, but looking at the people who came out of that program, something was going on there."

After the first research trip to France in 1968, Nye and her husband Bob finished writing their dissertations in the summer of 1969. Out of three possible dissertation choices Nye picked the French one, partly as a result of her husband's field of French history. After graduation, Nye received a National Science Foundation funded postdoc in history of science, and Bob landed a job at the University of Oklahoma. Nye taught part time for a few years until she received a tenure-track appointment at OU, by which time she had already published her first book, *Molecular Reality: A Perspective on the Scientific Work of Jean Perrin*. Their daughter Lesley was born in 1971, and almost immediately the Nyes packed up and returned to France for eight months. "We traded off taking care of our daughter," says Nye, "depending on who had to go out and do research. By the late 1970s I was working on a book on French provincial science. In addition to being in Paris, I was doing a study of five other cities in France. When we went to these places, Bob took lion's share of caring." Back in Oklahoma, they made sure to live close to their offices, only a twenty-minute walk from campus, and




Cosmology & Cosmetology

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never taught at the same time. The Nyes' also held classes in their home, but soon gave that up with a young child in the house.

Trips to France were frequent, most summers and once for an entire year. Then Nye's interests broadened to include England and P.M.S. Blackett, so they began going there as well, and Bob started work on a comparative study of France and England. Then Germany made it onto the academic itinerary. After the move to OSU in 1994, Nye's interests extended to the U.S and Linus Pauling, whose papers are held at OSU. Pauling's sheer amount of correspondence and broad compass of work – crystallography to quantum mechanics and biochemistry to disarmament – fascinated her. "It spans the whole twentieth century," says Nye, "and it spans all the sciences." Mary Jo and Bob Nye now share the same department at OSU, and their offices are next to each other. "I have a husband who shares my interests," says Nye. "We've done our research together, we read everything the other has written, and we talk all the time about what we're doing. We've supported each other."

Currently, Nye is working on the physical chemist and philosopher Michael Polanyi, both on the technical aspects of his work and on how his experiences as a scientist in Berlin during the Twenties and early Thirties influenced his philosophy. Polanyi's concerns with issues of centralization grew out of his fear that the model being set up in the Soviet Union would proliferate, says Nye. "What I find interesting about him were his political views in the big European context in the period before World War I to the Cold War, and looking at how this one man's career mirrors all the different lives he was living." A recent paper of hers compared Karl Popper, Thomas Kuhn, and Polanyi. "Popper and Polanyi had fundamental disagreements; Polanyi taking the view about how scientists in fact operate, while Popper's work was more about how scientists should operate in an ideal world," says Nye. "A lot of people make use of Polanyi, particularly his ideas on tacit knowledge. What he did was to shift talk about the nature of science from scientific logic to scientific practice. And the philosophers weren't too happy with that." Polanyi, however, had less influence than Kuhn for two reasons, says Nye: A lack of clarity as a writer and a religious dimension to *Personal Knowledge* (1958) that put off a lot of scientists and philosophers. "His argument was a fideist argument; doing scientific work requires scientists to make a commitment of belief. Scientists wouldn't do the work they did – seeking to understand order and understand what is there – if they didn't have faith that they could understand it, that there is a guarantee in the order of things. In many respects, he seems to be introducing the notion of a god who ensures the order of things, and a guarantee that what we know can be relied upon."

A long-time and involved member of the HSS, Nye served as vice president in 1987, and then an extended term as president when president Bill Coleman fell sick. In 2000 she presented the HSS Distinguished Lecture. Nye's husband and daughter sat in the audience when the Sarton Medal was presented, and she thanked them for their many years of encouragement. Of the award she says: "I'm thrilled by it, and one of the things I want to emphasize is that I see it as recognition of the institutions I've been a part of, and all the support they've given me, and my teachers, my colleagues, and my students. I like to think that they are receiving some recognition as well." 

– By Michal Meyer

Allied with garden design, collections and classification suited genteel temperaments, and Linnaean vocabulary, Graeco-Latin cognates, provided convincing chat. The global task of naming all species seemed possible and suddenly important.

Plants beautified and scented unplumbed spaces, and patrons sought out reliable collectors in the colonies. Looking from the top down, they did not view specimen procurement as the first step of scientific process. In contrast to showy plants of established traditions in India and Asia, clients took risks with North American species, but their triumphs were rigged: glories of the god of British gardens, stamped on the medal of the Royal Horticultural Society, were the results of decades of colonial experimental endeavor.

North American flora and fauna heightened English understanding of natural history, and this gain required a new scientific force, the workforce, untold numbers of enslaved Native Americans and Africans. Patrons closed their eyes, and wonders rather than organized surveys kept natural history patronage in good repair. Looking from the bottom up, experienced collectors maximized the impact of wonders and timed their returns. Dead or alive, wonders allowed recess for men sipping madeira in big wigs and buckled shoes. When colonial botanist John Bartram shipped London merchant Peter Collinson an assortment of turtles, he included a surprise, a large snapping turtle. Angry in confinement, this creature, awesome at six stone, earned its name when Collinson opened the crate. In truth, wonders in England were not marvels in the colonies. To the contrary, settlers regarded pouched 'possums, hypnotic rattlesnakes, and attack turtles as vermination and destroyed them.

For the London elite, Linnaean science, like antique marbles, tinted plaster casts, and *poufs*, was an imported pastime. Honorific names for species and genera provided fictive kinship binding participants to the scientific community and binding the Linnaean enterprise to real estate, language, and classical arts. As Bartram realized, disregard for the hard facts of collecting needed a rude American shake-down of powder dusting wigs.

In their one falling out, Collinson called Bartram *poufed up*, a dreadful insult between two old pen-pals of Quaker heritage. Bartram's desire for recognition had come between the two, patron and collector separated by an ocean, imminent revolution, and different visions of the natural world.

– By Charlotte M. Porter, Ph.D.
Florida Museum of Natural History
P. O. Box 117800
University of Florida
Gainesville, FL, 32611-7800, USA



PHOTO BY MICHAL MEYER

Future Meetings

Calls for Papers

Joint Atlantic Seminar for the History of Biology will take place at the University of Pennsylvania on Saturday, 17 March 2007. Graduate students and recent graduates interested in the history of the biological and biomedical sciences are encouraged to submit abstracts (of no more than 300 words) by e-mail (pdf, rtf, or Word format) addressed to Joanna Radin (jradin@sas.upenn.edu) and Jessica Martucci (jmartucc@upenn.edu). Deadline: 29 January 2007.

Fourth Augustin Cournot Doctoral Days (ACDD). 10-12 April 2007. Abstract Deadline 1 February 2007. Further information: <http://cournot.u-strasbg.fr/acdd> or e-mail: doctoraldays@cournot.u-strasbg.fr.

Securing the Ultimate Victory – Exploring the History of Military Medicine and Health Care. 12-13 April 2007 at the Army Medical Services Museum Mytchett, Surrey.

CSHPS annual meeting 2007. The University of Saskatchewan, Saskatoon, Saskatchewan. 28-30 May 2007. Submission deadline: 1 February 2007. <http://www.yorku.ca/cshps1/>.

British Society for the History of Science Annual Conference. University of Manchester, UK. 28 June-1 July 2007. Submission deadline: 4 February 2007. <http://www.bshs.org.uk/bshs2007>.

Networking in Science, The Gender Perspective Conference. Ermoupolis of Syros, Greece. 6-9 July 2007. Abstract deadline: 28 February 2007. <http://www.eie.gr/>.

Eighth Biennial History of Astronomy Workshop. University of Notre Dame, South Bend, Indiana. 25-29 July, 2007. Deadline for Sessions and papers: 1 March 2007. Deadline for posters: 1 May 2007. <http://www.nd.edu/~histast/>.

The 11th International Conference on History of Science and Technology. 20-24 August 2007, Nanning, P. R. China. Abstract deadline: 31 January 2007.

Sixth Conference on the History of Chemistry. Leuven, Belgium. 28 August-1 September 2007. Abstract Deadline: 1 February 2007. <http://www.6ichc.be/>.

Eighth Maritime Heritage Conference. San Diego, California, 9-12 October 2007. Abstract deadline: 1 June 2007. <http://www.sdmaritime.org>.

SHOT's 50th Anniversary Meeting to be held 17-21 October

2007, Washington DC. Deadline for abstracts 16 March 2007. www.historyoftechnology.org/fiftieth.html.

Sound in the Era of Mechanical Reproduction. 2-3 November 2007 at the Hagley Library in Wilmington, Delaware. Submission deadline: 31 March 2007. For more information contact Carol Lockman: clockman@hagley.org.

Second International Conference in the History of Medicine in Southeast Asia. Penang Malaysia, 9-10 January 2008. Deadline for abstracts: May 1, 2007. For more information contact shakila@usm.my or visit: <http://www.usm.my/APRU/index.html>.

Upcoming Conferences

Workshop – The Robert Koch-Institute for Infectious Diseases and its Role During National Socialism. To be held 19-20 January 2007 in Berlin. <http://www.medin.fu-berlin.de/igm>.

Energy and Culture. To be held 7-8 February 2007 in Esbjerg, Denmark. <http://www.CES-network.com>.

Knowledge that Matters. To be held 8-10 February 2007, Arizona State University, Tempe, Arizona.

Historicide and Reiteration: Innovation in the Sciences, Humanities and the Arts. 9-10 February 2007, Maastricht University, the Netherlands. Contact Lies Wesseling at lies.wesseling@lk.unimaas.nl.

epiSTEME-2. To be held at the Homi Bhabha Centre for Science Education (TIFR), Mumbai, India 12-15 February 2007. <http://www.hbcse.tifr.res.in/episteme>.

Gender & Technology Plenary Session. To be held 14-17 February 2007 at the Hyatt Regency, Albuquerque, New Mexico.

Living on the Edge: Human Desires and Environmental Realities. To be held 28 February 2007 through 3 March 2007 in New Orleans. <http://www.h-net.org/~environ/ASEH/conferences.html>.

SAHMS 2007. To be held 2-3 March 2007 in Charlottesville, VA. <http://www.SAHMS.net>.

Forum on History of Physics. To be held 5-9 March 2007, Denver CO, and 14-17 April 2007, Jacksonville FL.

The following announcements have been edited for space. For full descriptions and the latest announcements, please visit our Web site (<http://www.hssonline.org>). The Society does not assume responsibility for the accuracy of any item; interested persons should verify all details. Those who wish to publish a future meeting announcement should send an electronic version of the posting to newsletter@hssonline.org.

<http://www.aps.org/meet/MAR07/> and <http://www.aps.org/meet/APR07/>.

Medicine and Culture: Chinese-Western Medical Exchange from the Late Imperial to Modern Periods. To be held at the University of San Francisco on Friday, 9 March 2007. <http://www.usfca.edu/ricci>.

Technological Innovation and the Cold War. To be held 9-10 March 2007 at the Hagley Museum and Library, Wilmington, Delaware.

Precarious Matters. The History of Dangerous and Endangered Substances in the 19th and 20th centuries. To be held 22-24 March 2007 at the Max-Planck-Institute for the History of Sciences, Berlin.

Perspectives on Mathematical Practices. To be held 26-28 March 2007, Vrije Universiteit Brussel, Belgium. <http://www.vub.ac.be/CLWF/PMP2007/PMP2007.pdf>.

First International ESEMP Congress. To be held 26-30 March 2007 in Essen, Germany. <http://www.kongress.esemp.de>.

Teaching and Learning in the Maritime Environment: A Conference on Pedagogy & Scholarship. To be held 28-30 March 2007 at The California Maritime Academy.

The Second Annual British Society for Literature and Science conference to be held in central Birmingham, hosted by the University of Central England, from 29-31 March 2007.

The Business of Race and Science. To be held 30-31 March 2007, at Massachusetts Institute of Technology, Cambridge, Massachusetts.

Second Annual History of Women's Health Conference. Pennsylvania Hospital, Philadelphia, PA. 11 April 2007.

Securing the Ultimate Victory – Exploring the History of Military Medicine and Health Care. To be held 12-13 April 2007 at the Army Medical Services Museum, Mytchett, Surrey. Contact: armymedicalmuseum@btinternet.com.

Authority and Authorities in Thomas Browne and His Contemporaries: A Symposium. Saturday 21st April 2007, University of Leeds. <http://www.bbk.ac.uk/english/tbs/>. <http://www.med.uiuc.edu/SSMHCConf/>.

Rethinking Health, Culture and Society – Physician-Scholars in the Social Sciences and Medical Humanities. To be held 21-22 April 2007, University of Chicago. <http://www.med.uiuc.edu/SSMHCConf>.

The Other Animals: Situating the non-Human in Russian Culture and History. To be held 17-19 May 2007 in Roanoke, VA.

American Association of Geographers Annual Meeting, San Francisco, 17-21 April 2007.

The American Association for the History of Medicine 80th Annual Meeting to be held in Montreal, Quebec, 3-6 May 2007. For further information, contact Philip M. Teigen at pteigen@nih.gov.

Knowing Global Environments: Field Scientists and the Multiple Scales of Nature. American Philosophical Society & University of Pennsylvania, in Philadelphia. 10-12 May 2007.

E.N. Brandt Oral History Conference. The Chemical Heritage Foundation, Philadelphia, PA. 16 May, 2007. <http://www.chemheritage.org>.

The North American Society for Oceanic History and The National Maritime Historical Society 2007 Annual Meeting. 17-20 May 2007 at Kings Point, New York. <http://www.nasoh.org>.

ESEH Conference: Environmental Connections – Europe and the Wider World. Amsterdam, The Netherlands, 5-8 June 2007. <http://www.eseh.org>.

Invitation to the Launch of “**Inventing Europe**” for the Third Plenary Conference of the Tensions of Europe Network. 7-10 June 2007. Rotterdam, The Netherlands. <http://www.esf.org/inventingeurope>.

Geographies of Nineteenth-Century Science: An International Interdisciplinary Conference. University of Edinburgh, UK, 18-21 June 2007. See <http://www.geos.ed.ac.uk/geography/geog19c>.

Cultivating the 'Next' Agricultural History. Meeting of the Agricultural History Society will be held at Iowa State University, Ames, 21-23 June 2007. <http://agriculturalhistory.ndsu.nodak.edu/upcomingevents.html>.

SICU2: An International Workshop on Historic Scientific Instrument Collections in the University. 21-24 June 2007, Oxford, MS. <http://www.olemiss.edu/~sicu2web/>.

Cheiron and ESHHS First Joint Meeting. To be held 25-29 June 2007 at University College, Dublin, Ireland. <http://psychology.dur.ac.uk/eshhs/>.

Varieties of Cultural History. University of Aberdeen, 5-8 July 2007. <http://www.abdn.ac.uk/ch>.

The 2007 International Conference on the History of Cartography will be held 8-13 July 2007 in Berne, Switzerland. <http://www.ichc2007.ch/>.

Society for Philosophy and Technology 2007 Biennial Meeting. 9-11 July 2007, Charleston, South Carolina.

Sexual Histories: Bodies and Desires Uncovered. To be held 23-25 July 2007, Xfi Centre, University of Exeter.

Science and Religion Conference. To be held 23-26 July 2007 at the University of Lancaster, U.K. <http://www.lancs.ac.uk/depts/history/>

news/science&#38;#38;religion.htm.

Biennial Meeting of the International Society for the History, Philosophy and Social Studies of Biology (ISHPSSB). Exeter, UK, 25-29 July 2007. <http://www.h-net.org/announce/show.cgi?ID=153676>.

Third International Congress on Traditional Medicine and Materia Medica. The event will take place in Kuala Lumpur, Malaysia, 14-16 August 2007. <http://www.h-net.org/announce/show.cgi?ID=152336>.

ICOHTEC Symposium 2007. The International Committee for the History of Technology will hold their symposium 14-18 August 2007 in Copenhagen, Denmark. <http://www.icohtec2007.dk>.

Nature Behind Glass: Natural Science Collections Conference. To be held 6-8 September 2007 Manchester Museum, England. <http://www.arts.manchester.ac.uk/naturebehindglass/>.

www.arts.manchester.ac.uk/naturebehindglass/.

European Association for the History of Medicine and Health: Environment, Health and History. To be held in London, 12-15 September 2007. <http://www.lshmt.ac.UK/history>.

Les Mots et les Choses au XVIIIe siècle: La Science. To be held 21-22 September 2007 in Lyon, France.

The Legacy of Ramon y Cajal. Chestnut Hill College, Philadelphia, PA, 5-7 October 2007. E-mail Cajal@chc.edu.

TrustinScience Interdisciplinary Workshop. To be held in Toronto, 15-16 October 2007. Send questions to Sergio Sismondo at sismondo@queensu.ca.

Making Science Global: Reconsidering the Social and Intellectual Implications of the International Polar and

Geophysical Years. Smithsonian Institution, Washington, D.C., October 31 October – 1 November 2007.

Bicentenary of the Geological Society (of London). 12-13 November 2007. <http://www.geol Soc.org.UK/HOGG>.

Kinship and Blood, European Social Science History Association Conference. Lisbon, Portugal, 27 February - 1 March 2008.

Fifth International Congress of Maritime History. Greenwich, UK, 23-27 June 2008. For more information visit: <http://www.gre.ac.uk/schools/gmi/events/imeha2008>.

Fifteenth International Conference on the Origin of Life. Florence, Italy, 24-29 August 2008. For more information visit: <http://www.dbag.unifi.it/issol2008>.

Dissertations

The list below reflects information provided by Dr. Jonathon Erlen (only dissertation titles placed in Dissertation Abstracts are included) and others and was current as of 1 July 2006. Please send any missing titles to info@hsonline.org.

Audrain, Susan Connor. "Ethics in Technical Communication: Historical Context for the Human Radiation Experiments." University of North Texas, 2005, 197 pp. 3196132.

Brower, Matthew Brady. "The Fantasms of Science: Psychical Research in the French Third Republic, 1880-1935." Rutgers, The State University of New Jersey-New Brunswick, 2005, 372 pp. 3195660.

Burba, Juliet Marie. "Whence Came the American Indians?: American Anthropologists and the Origins Question, 1880-1935." University of Minnesota, 2006, 294 pp. 3206116.

Colman, John. "Science, Politics, and Poetry: A Study of Lucretius' 'On the Nature of Things'." Boston College, 2006, 306 pp. 3194595.

Cooke, Grayson. "Bio/Techno/Logo: Writing and the Face in the Human/Machine Relation." Concordia University (Canada), 2005, 370 pp. NR09979.

Doyle, Bret J. Lalumia. "The Logic of Descartes' Scientific Method in the 'Rules', 'Geometry' and 'Optics'." Boston University, 2006, 447 pp. 3202552.

Edwards-Ingram, Ywone. "Medicating Slavery: Motherhood, Health Care, and Cultural Practices in the African Diaspora." The College of William and Mary, 2005, 269 pp. 3201115.

Fowler, Philip A. "The Longitudinal Treatment and Structure of Plate Tectonics in Introductory College-Level Physical Geology Textbooks: 1974 - 2005." Ball State University, 2005, 185 pp. 3194872.

Furlow, Christopher A. "Islam, Science, and Modernity: From Northern Virginia to Kuala Lumpur." University of Florida, 2005, 173 pp. 3204388.

Greenfield, Daniel. "The Land as the Forgotten Teacher: How a Naturalistic Land Ethic, as Exemplified in Thoreau, Leopold, and Wilson,

Informs Environmental Education." Kent State University, 2005, 260 pp. 3203443.

Hoefer, Bernadette. "'I feel, therefore I am': Psychosomatic Manifestations in Seventeenth-Century French literature." Rutgers, The State University of New Jersey-New Brunswick, 2005, 338 pp. 3195689.

Howard, Jeremy Royal. "The Copenhagen Interpretation of Quantum Physics: An Assessment of its Fitness for Use in Christian Theology and Apologetics." The Southern Baptist Theological Seminary, 2005, 212 pp. 3194782.

Kent, Matthew Alexander. "Prime Matter According to St. Thomas Aquinas." Fordham University, 2006, 383 pp. 3201130.

King, Timothy David. "The Constellation System of the Ancient Maya." Stanford University, 2005, 189 pp. 3197454.

Kirby, Jeremy. "Material Migration and Aristotelian Metaphysics." Florida State University, 2005, 107 pp. 3198231.

Kumar, Prakash. "Facing Competition: The History of Indigo Experiments in Colonial India, 1897-1920." Georgia Institute of Technology, 2004, 412 pp. 3199295.

Lambert, Kevin Thomas. "Mind Over Matter: Language, Mathematics, and Electromagnetism in Nineteenth Century Britain." University of California-Los Angeles, 2005, 265 pp. 3202806.

McCaul, Edward B. "Rapid Technological Innovation: The Evolution of the Artillery Fuze During the American Civil War." Ohio State University, 2005, 371 pp. 3197775.

Parish, Joseph MacLean. "An Analysis of the 1875-1877 Scarlet Fever Epidemic of Cape Breton Island, Nova Scotia." University of Missouri-Columbia, 2004, 240 pp. 3204333.

Pearl, Sharrona Hyla. "As Plain as the Nose on Your Face: Physiognomy in Nineteenth Century England." Harvard University, 2005, 387 pp. 3194443.

Rankin, Alisha Michelle. "Medicine for the Uncommon Woman: Experience, Experiment, and Exchange in Early Modern Germany." Harvard University, 2005, 371 pp. 3194447.

Rivera-Medellin, Gregorio. "An Evolutionary Learning Community: How 'Artscience' Emerges Through Evolutionary Systems Design." California Institute of Integral Studies, 2004, 583 pp. 3192301.

Robinson, Martha K. "'They Decrease in Numbers Daily': English and Colonial Perceptions of Indian Disease in Early America." University of Southern California, 2005, 262 pp. 3196883.

Scharle, Margaret Elizabeth. "The Place of the Elements in Aristotle's Natural Teleology." University of California-Los Angeles, 2005, 258 pp. 3196367.

Shelangoskie, Susan. "Transmitting the Home: Photography, Telegraphy and Victorian Domestic Narratives." The University of Utah, 2006, 194 pp. 3194836.

Smith, Jennifer. "Mysticism as an Escape from Scientific Discourse: Eluding Female Subjectivity in Late Nineteenth and Early Twentieth-Century Spain." Indiana University, 2006, 269 pp. 3204287.

Von Burg, Ron. "The Cinematic Turn in Public Discussions of Science." University of Pittsburgh, 2005, 207 pp. 3206843.

Yearl, Mary Katherine Keblinger Hague. "The Time of Bloodletting." Yale University, 2005, 231 pp. 3194729.

Zajacz, Rita. "Technological Change, Hegemonic Transition and Communication Policy: State-MNC Relations in the Wireless Telegraph Industry, 1896-1934." Indiana University, 2006, 438 pp. 3195577.

Sponsor A Scholar: A First-Person Narrative

By Simon Reif-Acherman, (University of Valle, Cali, Colombia)

FIRST PERSON

My name is Simon Reif-Acherman. Since 1980, I have worked as a chemical engineer and professor at the School of Chemical Engineering at the University of Valle, in Cali, Colombia. Throughout my career, I have been interested in how ideas, theories, and different classes of equations have evolved. The first book I read in the history of science was Georges Gamow's *Biography of Physics*, in a Spanish edition, a gift from my father. Although physics was not my favorite field of study at the time, I can say now, without any doubt, that I learned to love physics by reading books on the history of physics. But during my education, I had few opportunities to read about the history of science.

I studied chemical engineering in college but our university library, and maybe all of the libraries in my country, had almost no materials on the history of science. Today, the situation is a little better, although far from ideal. From the mid 1980's, I was aware of the Dover classics in the history of science and began to buy my first books in the field from

that company. At the time, I thought this was one of only a few publishing houses to publish books on this subject. It was not until the 1990's that I began to learn about other publishers in the history of science. What I saw interested me, and I learned more about scholars in the history-of-science world. I began to contact some of them by mail, and in this way established some important connections.

With the appearance of the Internet, many more doors were opened, and I was able to learn about the almost infinite (in proportion to those I knew before that) resources in the history of science. One of the first persons I contacted was Dr. Margaret Rossiter, at that time the editor of *Isis*. Besides giving me important recommendations for my researches, Dr. Rossiter took note of my personal circumstances and suggested that I join the History of Science Society's Sponsor a Scholar Program. From that time, I began receiving *Isis* (a journal that I had seen referenced many times) and gained access to the HST database. I also received the Directory of Members

and the *Current Bibliography*, which kept me informed about publications. All these resources have enriched my research, as well as my academic and personal knowledge. There is no doubt that my association with the History of



PHOTO COURTESY SIMON REIF-ACHERMAN

Science Society has been the best thing that could happen to me in carrying out my historical research.

Currently, our Faculty of Engineering has no official courses devoted to the history of science. Although there have been some detectable changes among students and faculty regarding the importance of the history of science

within the curriculum, there still remains a long way to go. My own historical work has focused on the content of my courses, which are related to different theories of physics, thermodynamics and technology during the second part of the 19th century and the first decades of the 20th century. I examine not only the different theoretical and experimental developments, but also the people behind them. In 2004, I published my first article in the history of science, entitled "In Apprecia-

tion: Heike Kamerlingh Onnes: Master of Experimental Technique and Quantitative Research." It was published in the journal *Physics in Perspective* in 2004 and was the result of a long effort — almost four years — during which time I had the great fortune to count on not only the help of scholars in different countries (The Netherlands, Germany, USA, France, United Kingdom, Japan, etc.), but also from many institutions around the world. I learned the importance of making contact with the scholarly community.

I have also learned some important rules about historical research in general. One of them is the absolute necessity to search all the available primary sources, together, with secondary sources. However, the need to consult such sources creates a difficult obstacle in countries such as mine because it is almost impossible to find them in our university or public libraries. Compounding this difficulty is the almost total lack of economic support for historical research here.

Although I am only a beginner in the history of science, my 25 years of experience in teaching chemical engineering have convinced me of the need and the usefulness to join history and chemistry to help students learn. Currently, I am in a sabbatical year so that I can write a textbook for beginners in chemical engineering. The textbook will cover the subjects of traditional textbooks but with three main focuses: to be as strong as possible in demonstrating through everyday examples chemical and physical concepts, to emphasize the most appropriate equations that represent these concepts, and to show the historical evolution of those concepts, with an emphasis throughout on the general historical and social contexts of the concepts and how ideas have evolved over time. I am not sure that I will be able to do it, although I will try. As far as I know, few textbooks in chemical engineering include historical information. My intent is that the historical information will increase my students' motivation, and, perhaps, help them learn to love the history of science as much as I do.

Endowed Chair/History of Science Thomas Hart and Mary Jones Horning Professorship

Oregon State University invites nominations and applications for appointment to the Thomas Hart and Mary Jones Horning Professorship in the Humanities. This endowed chair is in the Department of History and will be filled by an Historian of Science in any specialty. The holder of the chair is expected to be a senior scholar with a distinguished record of publication and teaching in the History of Science. Appointment to the chair will carry tenure and a position of Professor in the Department of History. The estate of the late Benjamin Horning established an endowment at Oregon State University for the purpose of supporting the Humanities. Dr. Horning's intent was to improve and extend the teaching of humanities to students in the sciences and technical areas offered by Oregon State University. In keeping with Dr. Horning's wishes, the university defined the endowed chair funded by the Horning Endowment as one in the field of History of Science, a field that has long played a role at Oregon State University as a bridge between the humanities and sciences. The Endowment also supports a related educational program that includes a lecture series, visiting scholars, conferences, and a graduate program in the History of Science. It is expected that the holder of the endowed chair will take a leading role in these programs, continue to be a productive scholar and teacher, participate fully in departmental affairs, and contribute to the study of History at Oregon State University. Visit our website at <http://oregonstate.edu/cla/history/>

Nominations and applications should be sent to the chair of the Horning Search Committee; Paul Farber, Oregon State University, Department of History, 306 Milam Hall, Corvallis OR 97331-5104. Selection will be based on the candidate's outstanding credentials in teaching and scholarship in the field of History of Science. Nominations and application should consist of a letter of interest (or a letter describing the nominee), a curriculum vitae, and the names of three to five references. References will not be contacted until the Horning Search committee has confirmed interest from the nominee. To ensure full consideration, applications (or nominations) must be received by 1/31/07. Oregon State University is an Affirmative Action/Equal Opportunity Employer.

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The production of the 2006 Isis Current Bibliography has been made possible in part through income provided by the HSS Bibliographer's Fund, created late in 2003 by a \$125,000 Challenge Grant to the History of Science Society from the National Endowment for the Humanities. When fully funded, this endowment will pay most of the Society's expenses for the Bibliography each year. The full amount of the NEH Challenge Grant will not be paid unless the Society matches it on a four-to-one basis by the end of July 2008. To date, approximately \$150,000 has been donated to the Bibliographer's Fund in response to the NEH's challenge. Contributors to this fund, through the end of November 2006, are listed here. It is an honor and a pleasure to recognize and record here their most welcome generosity.

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Please send corrections to info@hssonline.org

2007 Meeting



Arlington, VA

HSS 2007 Annual Meeting: Call for Papers

Arlington, Virginia, USA
1-4 November 2007

The History of Science Society will hold its 2007 Annual Meeting in Arlington, Virginia, across the Potomac River from Washington, D.C., from Thursday, 1 November through Sunday, 4 November 2007. Proposals for sessions and contributed papers must be submitted by **2 April 2007**. Note that the deadline for the submission of paper proposals that are part of a session is **9 April 2007**. Proposals submitted after these dates will not be accepted.

HSS members are asked to circulate this announcement to colleagues who may be interested in presenting a paper at the Annual Meeting (membership in HSS is not required, but all participants must register for the conference).

Submissions on all topics are requested. Proposals must be submitted via the HSS Web site (<http://www.hssonline.org>) or on the annual meeting proposal forms that are available from the HSS Executive Office (see contact information, below). **Only one proposal per person may be submitted.** In order to ensure broad involvement, an individual may appear only once on the program, and prior participation at the 2005 or 2006 meetings will be taken into consideration. Quality of the proposals, however, is paramount.

Abstracts should be no longer than 250 words; those fewer than 100 words will not receive serious consideration. Preference will be given to session proposals that include: a mix of men and women; diversity of institutional affiliations; and/or a balance of professional ranks (e.g., mixing senior scholars with junior scholars and graduate students). Individuals who are interested in chairing a session in lieu of presenting a paper are encouraged to submit this information on the submission form. Individuals are also asked to identify any special audio-visual needs.

Before submitting a proposal, it is recommended that individuals read the "Guidelines for Selecting Papers and Sessions" prepared by the Committee on Meetings and Programs on this page (also available on the HSS Web site: <http://hssonline.org>). These guidelines will be used in evaluating session and paper proposals. The 2007 program co-chairs are Marsha Richmond (Wayne State University) and Anita Guerrini (University of California, Santa Barbara).

For additional information concerning the 2007 meeting, contact the HSS Executive Office: info@hssonline.org, P.O. Box 117360, University of Florida, Gainesville, FL 32611-7360; phone: 352-392-1677; fax: 352-392-2795.

History of Science Society
Committee on Meetings and Programs

Guidelines for Evaluating Proposals

1. In evaluating individual proposals for possible inclusion in general sessions created by the Program Chairs of "contributed papers":

(a) The principal criterion will be the quality of the proposal.

(b) A second factor of substantial weight will be the need to bring balance to the program.

(c) No person, but for the most exceptional circumstances (to be cleared with the chair of CoMP), may appear on the program twice (as presenter of a paper, commentator, discussant, or chair). A person may, however, serve more than one function in a single session – e.g., as chair and presenter or commentator or discussant or as a presenter in a panel. Also, a person is exempt from the stricture against duplication if he or she serves only as an organizer of another session or a presenter in a special gathering such as a workshop or plenary session.

(d) Priority will be given to people who did not appear on the two previous years' programs.

(Note: The Program Chairs will reserve a block of sessions for "contributed papers," primarily, but not solely, by graduate students. Graduate students are also encouraged to apply as participants in regular sessions.)

2. In evaluating sessions that organizers submit as wholes and whose proposals support unified themes:

(a) The principal criterion will be the importance of the topic and the perceived quality of the proposals and their integration into a meaningful and useful session.

(b) Another criterion will be the need for balance in the subjects covered on the program.

(c) Another factor will be sponsorship by an official HSS interest group or committee (one session only).

(d) An additional factor will be involvement of participants representing diversity of institutional affiliations.

(e) Priority will be given to people who did not appear on the previous year's program.

(Note: For inclusion on the official program, the following activities require regular applications as sessions:

- public forums or speakers sponsored by HSS interest groups and committees
- honorific sessions sponsored by members' colleagues
- commemorations of historic events
- plenary sessions
- other special gatherings

Program Chairs will judge these submissions along with other sessions on their merits. (Of course, official HSS interest groups and committees remain welcome to mount special programs in the time-slots normally allocated for their business meetings. Similarly, HSS members remain welcome to organize private activities independent of the official program.)

3. In evaluating workshops, field trips, or site visits:

(a) The principal criterion will be the activity's relevance to the society's collective goals.

(b) A related issue will be the activity's logistical feasibility.

(c) Another factor of importance will be the need to bring balance to the program.

(d) A final aspect will be sponsorship by an official HSS interest group or committee, including the local arrangements committee.

(Note: The program chairs will reserve periods during Thursday afternoon and Friday evening for workshops, field trips, site visits, and related activities.)

Audio Visual Needs: Those who propose a paper are asked to identify their a/v needs. Due to the high number of requests for LCD projectors and their limited availability, preference will be given to those who make their request first and who demonstrate a significant need for a visual component in their presentation.



Future Meetings

WASHINGTON, DC
(1-4 Nov. 2007)

PITTSBURGH, PA
(Joint Meeting with PSA, 6-9
Nov. 2008)

PHOENIX, AZ
(Mid-November 2009)

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MARY JO NYE
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The History of Science Society would like to thank the following volunteers whose term of service ends this year. Without their thousands of hours of intellectual labor, the Society could not possibly function.

Thank you!

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Isis Books Received

Allen, Paul L. *Ernan McMullin and Critical Realism in the Science-Theology Dialogue*. (Ashgate New Critical Thinking in Religion, Theology and Biblical Studies). Xi + 201 pp., bibl., index. Burlington, VT: Ashgate, 2006. \$99.95 (cloth). 9780754652830.

Andersen, Hanne; Baker, Peter; Chen, Xiang. *The Cognitive Structure of Scientific Revolutions*. xv + 199 pp. Figs, ref, index. Cambridge: Cambridge University Press, 2006. \$70 CAN (cloth). 0521855756.

Anderson, Warwick. *Colonial Pathologies: American Tropical Medicine, Race, and Hygiene in the Philippines*. ix + 355 pp., figs., bibl., index. Durham: Duke University Press, 2006. \$84.95 (cloth). 0822338041.

Bala, Arun. *The Dialogue of Civilizations in the Birth of Modern Science*. xii + 230 pp., bibl., indexes. New York: Palgrave MacMillan, 2006. \$65.95 (cloth). 1-4039-7468-3.

Barras, Vincent (Editor in Chief). *Gesnerus, Swiss Journal of the History of Medicine and Sciences: Theme Issue: Melancholy and Material Unity of Man, 17th-18th Centuries*. (Volume 63, Number 1/2.) (Swiss Journal of the History of Medicine and Sciences.) 176 pp. bibls. Basel: Schwabe & Co AG Verlag Basel, 2006. Euro 47.50 (paper). 0016-9161.

Battista Amici, Giovanni. *Edizione Nazionale delle Opere e della Corrispondenza di Giovanni Battista Amici. National Edition of the Works and Correspondence of Giovanni Battista Amici*. Edited by Alberto Meschiarri. 2 Volumes. 1085 pp. illus., figs., bibl., index. Napoli: Bibliopolis, 2006. Euro 25 (cloth). 88-7088-521-6.

Bhattacharya, Sanjoy. *Expunging Variola: The Control and Eradication of Smallpox in India, 1947-1977*. (New Perspectives in South Asian History.) xv + 327 pp. figs., table, bibl., index. New Delhi: Orient Longman, 2006. Rs. 750 (cloth). 81 250 3018 2.

Blackwell, Richard J. *Behind the Scenes at Galileo's Trial: Including the First English Translation of Melchior Inchofer's Tractatus syllepticus*. xiii + 245 pp. index., Notre Dame, IN: University of Notre Dame Press, 2006. \$35 (cloth). 0268022011.

Blanc, Paul D. *How Everyday Products Make People Sick: Toxins at Home and in the Workplace*. x + 374 pp., figs., index. Berkeley: University of California Press, 2007. \$19.95 (paper). 9780520248823.

Blank, Paula. *Shakespeare and the Mismeasure of Renaissance Man*. 214 pp., bibl., index. Ithaca: Cornell University Press, 2006. \$39.95 (cloth). 9780801444753.

Blessner, Barry; Salter, Linda-Ruth. *Spaces Speak, Are You Listening??:*

Experiencing Aural Architecture. xi + 437 pp. figs., bibl., index. Cambridge, MA: MIT Press, 2007. \$39.95 (cloth). 0-262-02605-8.

Boniolo, Giovanni; De Anna, Gabriele (Editors). *Evolutionary Ethics and Contemporary Biology*. Edited by Michael Ruse. (Cambridge Studies in Philosophy and Biology). ix + 207 pp., index. Cambridge: Cambridge University Press, 2006. \$75 (cloth). 0-521-85629-9.

Breidbach, Olaf. *Goethe's Metamorphosenlehre*. 334 pp. figs., bibl., indexes. Paderborn: Wilhelm Fink Verlag, 2006. Euro 39.90 (paper). 3770541979.

Bribescas, Richard G. *Men: Evolutionary and Life History*. 306 pp., figs., bibl., index. Cambridge: Harvard University Press, 2006. \$28.95 (cloth). 067402293-9.

Brock, Adrian C. (Editor). *Internationalizing the History of Psychology*. vii + 260 pp., fig., index. New York: New York University Press, 2006. \$50 (cloth). 0-8147-9944-2.

Broks, Peter. *Understanding Popular Science*. Foreword by Stuart Allen. (Issues in Cultural and Media Studies). x + 183 pp., bibl., index. New York: Open University Press, 2006. Euro 17.99 (paper). 0 335 21548 3.

Brown, Neville. *Engaging the Cosmos: Astronomy, Philosophy, and Faith*. x + 367 pp., index. Brighton: Sussex Academic Press, 2006. \$32.50 (paper). 1-903900-67-0.

Buescher, John Benedict. *The Remarkable Life of John Murray Spear: Agitator for the Spirit Land*. x + 368 pp. index. Notre Dame, IN: University of Notre Dame, 2006. \$30 (cloth). 0-268-02200-3.

Byers, Nina; Williams, Gary (Editors). *Out of the Shadows: Contributions of Twentieth-Century Women to Physics*. Foreword by Freeman J. Dyson. xxv + 471 pp., figs., indexes. Cambridge: Cambridge University Press, 2006. \$35 (cloth). 0-521-82197-5.

Can der Vleuten, Erik; Kaijser, Arne (Editors). *Networking Europe: Transnational Infrastructures and the Shaping of Europe, 1850-2000*. vii + 335 pp. figs., index. Sagamore Beach: Science History Publications/USA, 2006. \$47.50 (cloth). 0-88135-394-9.

Cañizares-Esguerra, Jorge. *Puritan Conquistadors: Iberianizing the Atlantic, 1550-1700*. xiv + 327 pp. figs., bibl., index. Stanford, CA: Stanford University Press, 2006. \$24.95 (paper). 9780804742801.

Cañizares-Esguerra, Jorge. *Nature, Empire, and Nation: Explorations of the History of Science in the Iberian World*. xiv + 229 pp. figs., bibl., index. Palo Alto: Stanford University Press, 2006. \$24.95 (paper). 9780804755443.

Cantor, Geoffrey; Swetlitz, Marc (Editors). *Jewish Tradition and the Challenge of Darwinism*. xii + 260 pp., index. Chicago: The University of Chicago Press, 2006. \$60. (cloth); \$24 (paper). 0226092763.

Capria, Marco Mamone (Editor). *Physics Before and After Einstein*. vii + 324 pp. figs. Amsterdam: IOS Pres, 2005. Euro 120 (cloth). 1586034626.

Carson, John. *The Measure of Merit: Talents, Intelligence, and Inequality in the French and American Republics, 1750-1940*. xvii + 401 pp., tables, notes, index. Princeton: Princeton University Press, 2006. \$39.50 (cloth). 0691017158.

Colgrove, James. *State of Immunity: The Politics of Vaccination in Twentieth-Century America*. xiii + 332 pp., figs., index. Berkeley: University of California Press, 2006. \$39.95 (cloth). 9780520247493.

Collard, Franck; Samama, Évelyne (Editors). *Pharmacopoles et Apothicaires: Les "pharmaciens" de l'Antiquité au Grand Siècle*. 195 pp., index. Paris: l'Harmattan, 2006. Euro 18 (paper). 229601061x.

Conway, Erik M. *Blind Landings. Low-Visibility Operations in American Aviation, 1918-1958*. xiv + 218 pp., illus., notes, index. Baltimore: The Johns Hopkins University Press, 2006. \$45 (cloth). 0801884497.

Crosland, Maurice. *The Language of Science: From the Vernacular to the Technical*. 127 pp. illus., index. Cambridge: Lutterworth Press, 2006. \$25 (paper). 0718830601.

Curth, Louise Hill (Editor). *From Physick to Pharmacology: Five Hundred Years of British Drug Retailing*. 174 pp. figs., index. Burlington, VT: Ashgate, 2006. \$99.95 (cloth). 9780754635970.

D'Alembert, Jean Le Rond. *Traité des mémoires mathématiques, 1736-1756. Volume 7, Précession et nutation (1749-1752)*. Edited by Michelle Chapront-Touzé and Jean Souchay. (Œuvres Complètes, Série I.) Volume 7. clix + 490 pp. figs., tables, bibl., indexes. Paris: CNRS Editions, 2006. Euro 60 (cloth). 2-271-06456-2.

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Daston, Lorraine; Mitman, Gregg (Editors). *Thinking with Animals: New Perspectives on Antropomorphism*. vi + 230 pp., illus., table, notes, index. New York: Columbia University

Press, 2005. \$25 (paper). 0231130392.

Dear, Peter. *The Intelligibility of Nature. How Science Makes Sense of the World*. xii + 242 pp., illus., figs., index. University of Chicago Press, 2006. \$27.50 (cloth). 0226139484.

DeBus, Allen G. *The Chemical Promise: Experiment and Mysticism in the Chemical Philosophy 1550-1800, Selected Essays of Allen G. DeBus*. xxv + 548 pp., illus., figs., index. Sagamore Beach, MA: Science History Publications/USA, 2006. \$89.95 (cloth). 0881352969.

Delbourgo, James. *A Most Amazing Scene of Wonders: Electricity and Enlightenment in Early America*. 367 pp., figs., index. Cambridge, MA: Harvard University Press, 2006. \$29.95 (cloth). 0674022998.

d'Espagnat, Bernard. *On Physics and Philosophy*. ix + 503 pp., apps., bibl., indexes. Princeton: Princeton University Press, 2006. \$35 (cloth). 0691119643.

Dow, Kirstin; Downing, Thomas E. *The Atlas of Climate Change. Mapping the World's Greatest Challenge*. Foreword by Bo Kjellén. 112 pp., illus., figs., tables, bibl., index. Berkeley/Los Angeles: University of California Press, 2006. \$19.95 (paper). 0520250230.

Dugatkin, Lee Alan. *The Altruism Equation. Seven Scientists Search for the Origins of Goodness*. xi + 183 pp., illus., table, index. Princeton: Princeton University Press, 2006. 24.95 (cloth). 0691125902.

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Einstein, Albert. *The Collected Papers of Albert Einstein, Volume 10: The Berlin Years: Correspondence, May - December 1920, and Supplementary Correspondence, 1909-1920*. Edited by Dian Kormos Buchwald; Tilman Sauer; Ze'ev Rosenkranz; Josef Illy; Virginia Iris Holmes. Translated by Ann Hentschel. Ixix + 683 pp., illus., figs., bibl., apps., indexes. Princeton, NJ: Princeton University Press, 2006. \$110 (cloth); \$45 (paper). 069112826x.

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- Evans, James; Berggren, J. Lennart.** *Geminus's Introduction to the Phenomena: A Translation and Study of a Hellenistic Survey of Astronomy.* xviii + 325 pp., illus., apps., bibl., index. Princeton: Princeton University Press, 2006. \$49.50 (cloth). 069112339x.
- Evans, R.J.W.; Marr, Alexander** (Editors). *Curiosity and Wonder from the Renaissance to the Enlightenment.* xvi + 265 pp., illus., figs., index. Burlington, VT: Ashgate Publishing, 2005. \$94.95. (cloth). 0754641023.
- Filling, Holger.** *Die kryprische Darstellung der Venus auf der Himmelsscheibe von Nebra.* 40 pp. figs., illus., tables. Kierspe: Holger Filling, 2006. Euro 5 (paper).
- Fleming, James Rodger; Jankovic, Vladimir; Coen, Deborah R.** (Editors). *Intimate Universality: Local and Global Themes in the History of Weather and Climate.* xx + 264 pp., illus., figs., index. Sagamore Beach, MA: Science History Publications/USA, 2006. \$39.95 (cloth). 0881353671.
- Fox, Mary Frank; Johnson, Deborah G.; Rosser; Sue V.** (Editors). *Women, Gender, and Technology.* viii + 204 pp. figs., tables, index. Urbana: University of Illinois Press, 2006. \$20 (paper). 0252073363.
- French, Steven; Krause, Décio.** *Identity in Physics: A Historical, Philosophical, and Formal Analysis.* xv + 422 pp., figs., bibl., index. Oxford: Oxford University Press, 2006. £50 (cloth). 0199278245.
- Friedman, Michael; Nordmann, Alfred** (Editors). *The Kantian Legacy in Nineteenth-Century Science.* (Dibner Institute for the History of Science and Technology.) 370 pp., figs., bibl., index. Cambridge, MA: MIT Press, 2006. \$45 (cloth). 0262062542.
- Fudge, Erica.** *Brutal Reasoning: Animals, Rationality, and Humanity in Early Modern England.* x + 224 pp. figs., index. Ithaca, NY: Cornell University Press, 2006. \$45 (cloth). 9780801444548.
- Gachelin, Gabriel** (Editor). *Les organismes modèles dans la recherche médicale.* (Science, histoire et société.) viii + 285 pp., figs., index. Paris: Presses Universitaires de France, 2006. Euro 24 (paper). 213052692.
- Gall, Y.M.; Kolchinsky, E.I.** (Editors); **Polevoy, A.V.** (Editor-Compiler). *Evolutionary Biology: History and Theory.* (Vol. 3.) 270 pp., figs., tables, bibl. St. Petersburg: St. Petersburg Institute of History Publishers, 2005. (paper). 5981871032.
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- Giacomini, Paola; Dappiano, Luigi** (Editors). *Jacopo Aconzio. Il pensiero scientifico e l'idea di tolleranza.* (Editrice Università degli Studi di Trento, Dipartimento di Scienze Filologiche e Storiche.) 305 pp., figs., bibl., index. Trento: Editrice Università degli Studi di Trento, 2005. Euro 15 (paper). 88-8443-115-8.
- Giere, Ronald N.** *Scientific Perspectivism.* iv + 151 pp., illus., index. Chicago: The University of Chicago Press, 2006. \$30 (cloth). 0226292126.
- Gimbel, Steven; Walz, Anke** (Editors). *Defending Einstein: Hans Reichenbach's Writings on Space, Time, and Motion.* vi + 216 pp., figs., index. New York: Cambridge University Press, 2006. \$80 (cloth). 5021859581.
- Gingras, Yves; Roy, Lyse** (Editors). *Les Transformations Des Universités du XIIe Siècle.* Edited by Yves Gingras. (Enseignement supérieur.) xii + 256 pp. index. Québec: Presses de l'Université du Québec, 2006. \$27 (paper). 2-7605-1451-X.
- Givens, Jean A.; Reeds, Karen M.; Touwaide, Alain** (Editors). *Visualizing Medieval Medicine and Natural History 1200-1550.* (AVISTA Studies in the History of Medieval Technology, Science and Art.) xx + 278 pp., figs., index. Burlington, VT: Ashgate, 2006. \$99.95 (cloth). 0754652963.
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Cosmology & Cosmetology

Matthew Darly (active c. 1756-1780).
The Flower Garden, 1777

The themed *pouf*, made famous by Marie Antoinette, debuted in 1774 as a personalized headdress, a cosmetic collection space not unlike a cabinet of curiosities. Adorned with vines and giant sausage curls in a 1777 cartoon drawn by Matthew Darly, the powdered *pouf* shown here holds a lady's English flower garden, complete with hired gardener, hedges, and garden house, a faux classical temple. Defying Newtonian physics, rival *poufs* required props, concealed cotton pads and wire apparatus, even liveried pages with poles.

Eighteenth-century English natural history was top-heavy: participants included more patrons than collectors, and shortages of manpower caused costly delays. At the same time, estate gardens provided competitive recreation for an "upper crust" game to acquire and maintain new species. In a trend eventually called the American Garden, patrons procured North American plants, turtles, and frogs to enhance promenades and symbolize economic ties. Garden parties and soirees allowed hosts and guests to rub shoulders with continental plant experts such as John Frederick Gronovius and Daniel Solander, students of Karl von Linne' of Sweden.

Garden fashion received additional scientific bolster after Benjamin



Stillingfleet published his English trot of Linnaean reforms in 1759. Stillingfleet cut a deft figure, and his habit of wearing blue stockings (emblematic of British hopes for colonial indigo) gave rise to the term bluestocking. A social tugboat, Stillingfleet pushed commitment to the new science among men and women of influence.

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