

NEWSLETTER



VOLUME 28 NUMBER 3
July 1999

HISTORY OF SCIENCE SOCIETY

HSS in Pittsburgh

Pittsburgh is called “the city with an entrance” and HSS members who have not visited the area will soon understand the significance of this phrase. As you emerge from the Fort Pitt tunnel on the drive in from the airport, Pittsburgh’s compact downtown will be spread before you, its gleaming 11-by-11 block area dispelling persistent notions of a coal-smear town. The downtown area, also called the “Golden Triangle,” (pictured at right) marks the union of Pittsburgh’s three rivers, the Monongahela, the Allegheny, and the Ohio, with the point of intersection marked by Point State Park, which features jogging trails and a spectacular fountain, fed by a little-known fourth river.



To the east of Point State Park is Oakland, Pittsburgh’s academic center, where Andrew Carnegie and others used their fortunes to build a cultural district of world renown, including the Carnegie Museums and the Cathedral of Learning. (All of which are a short bus ride from the conference hotel.) Located just across from Oakland, in Schenley Park, is the Phipps Conservatory and its two and one-half acres of exotic flora. On the north side of town, are the Andy Warhol Museum and the Carnegie Science Center and the “T”, Pittsburgh’s subway, which is free in the downtown area.

Members will have a variety of options in reaching the Westin William Penn, the conference hotel, from the airport. Once you deplane, proceed to Ground Transportation and the Airport Express booth. (Look for the \$3 off coupon on the hotel registration page. Credit cards are accepted.) The shuttle runs Monday through Friday 5a.m. to 7p.m. every 30 minutes, and 7p.m. to 10p.m. every hour. On Saturday and Sunday, it operates from 5a.m. to 10p.m. every hour. A round-trip is

\$20 and the ride to the hotel takes about 35 minutes. You will use the Oliver Street stop for the shuttle, a short block from the hotel. A cab ride averages \$28 to \$38, depending on the traffic. Also, the port authority operates a bus, Airport Flyer 28X, \$1.95 one way, which has two downtown stops. Check at the airport for the schedule. The bus takes approximately 45 minutes.

The weather can be unpredictable in November, with days ranging from summer-like weather to snow storms. Typically, the last colors of the fall foliage will still be visible and temperatures will be in the lower 40s Fahrenheit, approximately 5 degree Celsius, and it is best to bring a jacket or sweater. Weather reports, along with a wealth of information, such as cities served by Pittsburgh International Airport, are available via links on the HSS Web site.

For members who live in other countries, currency exchange outlets are available at the Mellon Bank, the PNC Bank, and Mutual of Omaha, the latter located at the airport.

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HSS Looking Ahead

As we prepare to assemble for the 1999 annual meeting, the satisfaction of celebrating the semisesquicentennial is leavened by the Society's forward-looking activities. These activities are nowhere more evident than the services offered through the HSS Web site (<http://depts.uwashington.edu/hsexec>) which has been maintained and expanded by Melissa Oliver and Rob Ferguson. One portion of the HSS site which was a resounding success this past spring, was the option to submit electronically paper or session proposals for the 1999 meeting. Compared to last year, the first year that electronic submissions were available, the differences are dramatic. In 1998, 10 percent of session proposals and 25 percent of paper proposals came through the Web. This year, those numbers grew to 84 percent and 89 percent, respectively. Electronic submissions not only eased the submission process for our members—27 percent more session proposals were received compared to last year—but a large difference was evident in the office. Instead of laboriously typing in abstracts, many of which had been submitted via garbled faxes, a task that would take 30 minutes or longer for each proposal, electronic submissions were processed in a tenth of the time, an average of 3 minutes for each proposal. These were then quickly loaded onto a unique Web site, designed specifically for the program co-chairs. Due to the increased electronic submission rate and the concerted effort of the program chairs, this year's program was available much earlier than anticipated.

Although session and paper proposals are vitally important, other services are offered through the Web site. Meeting registration and hotel reservation forms will be posted on the Web site, precluding the need to request yet another July *Newsletter* to replace the one that never found its way to a member's address. Also, an updated online directory is now available, with a database that is searchable by name, institution, city, and, best of all, research interests. This new electronic directory will complement the print directory, which was mailed to members in May, and should facilitate contact among our membership—one of the more important functions of a professional society.

* * * Memorabilia Wanted * * *

Please send us your photos, old meeting programs, or other print memorabilia that we can display at the anniversary meeting.

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 website, and the History of Science and Technology Database (HST) through the HSS homepage <http://depts.washington.edu/hsexec/>. RLG has assigned us "Y6.G19" as a "User Name" and "HSSDEMO" as a "Password."

History of Science Society Executive Office

University of Washington
Box 351330
Seattle, Washington 98195-1330
Phone: 206/543-9366
Fax: 206/685-9544

e-mail: hsexec@u.washington.edu
Web site: <http://depts.washington.edu/hsexec/>

Physical address (Fed-Ex, UPS):
Johnson Hall, Room 226
University of Washington
Seattle, Washington 98195-1330

Subscription Inquiries: *ISIS* and *HSS Newsletter*

Please contact the University of Chicago Press directly, at: subscriptions@journals.uchicago.edu, (fax) 773/753-0811, or write University of Chicago Press, Subscription Fulfillment Manager, P.O. Box 37005, Chicago, IL 60637.

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 first-class airmail charges. The *Newsletter* is available to nonmembers and institutions for \$25 a year.

The *Newsletter* is edited and desktop published by Melissa Oliver in the Executive Office on an Apple Power Macintosh system using Microsoft Word and Adobe PageMaker. The format and editorial policies are determined by the Executive Director in consultation with the HSS Executive Committee. All advertising copy must be submitted camera-ready. Advertisements are accepted on a space-available basis only, and the Society reserves the right not to accept a submission. The rates are as follows:

Full page (9 x 7.5"), \$350; Half page (4.5 x 7.5"), \$200; Quarter page (3 x 5"), \$100. The deadline for insertion orders and camera-ready copy is **six weeks prior to the month of publication** (e. g., November 15 for the January *Newsletter*) and should be sent to the attention of the HSS Executive Office at the above address. HSS recommends that all camera-ready ads be sent via overnight or 2-day mail to the *physical* address above.

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 **Melissa Oliver** at the HSS address above (e-mail or disk appreciated).

New Travel Agent

We have recently secured the services of Sandra Courtney of Travel Concepts, Inc., for Society travel. Sandra has extensive experience working with the education sector. When you contact her, she will look first for convenient flights on your preferred airline. If you desire the least expensive flight available, please let her know. Also note that international travelers are **not** eligible for the convention discount; international travelers can lower their airfare by buying wholesale discount tickets (check with your travel agent). If you call, and Sandra is unable to take your call, just leave your travel preferences on her voice mail and she will respond within 24 hours. Or, you may wish to fax or e-mail her the information. Irrespective of how you book your travel, please use the group identifier number (**United Air 5730D (800) 521-4041 or US Airways 39631137 (877) 874-7687**) when you make your reservation. HSS will receive travel benefits as a result of your using this number, savings that accrue to the Society.

Travel Concepts Inc.

SANDRA COURTNEY

649 STRANDER BLVD, SUITE F, SEATTLE WA 98188
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HSS ANNUAL MEETING 4-7 NOVEMBER 1999

AIRFARE MEETING DISCOUNTS

FOR TRAVEL BETWEEN 29 OCT - 11 NOV 1999

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FOR RENTAL BETWEEN 25 OCT - 15 NOV 1999

DAILY-WEEKLY-AND WEEKEND RATES

DOLLAR RENT A CAR CODE HS8185 (800) 800-0044

1999 Election Results

The following members have been chosen to represent the interests of the Society.

For Vice-President:

(President elect) John Servos, Amherst College

For Council:

Janet Browne, Wellcome Institute for the History of Medicine

Rich Kremer, Dartmouth College

Kathryn Olesko, Georgetown University

Alan E. Shapiro, University of Minnesota

Pamela Smith, Pomona College

Council members elected to serve on the Nominating Committee:

Harold J. Cook, University of Wisconsin

Phillip R. Sloan, University of Notre Dame

M. Norton Wise, Princeton University

At-large members elected to serve on the Nominating Committee:

Theodore M. Porter, UCLA

Joan Richards, Brown University

Our thanks to the 1999 Nominating Committee: Paula Findlen, Chair; Frederick Churchill; Roger Hahn; Gregg Mitman; Lynn K. Nyhart; and the 242 members who voted.

New *Osiris* Editorial Board Members

Two new members have been added to the *Osiris* Editorial Board. Jan Golinski has been appointed to a five-year term ending December 31, 2003. Golinski is the author of *Science as Public Culture* (1992), and *Making Natural Knowledge* (1998), both with Cambridge University Press, and a co-editor of *The Sciences in Enlightened Europe* (University of Chicago, 1999). He is presently Associate Professor of History at the University of New Hampshire. Michael Neufeld of the National Air and Space Museum's Aeronautics Division has been appointed to replace Kathy Olesko, now Associate Editor of *Osiris*, on the Editorial Board and will serve until December 31, 2001. Neufeld is the author of *The Skilled Metalworkers of Nuremberg* (Rutgers, 1989) and *The Rocket and the Reich* (Free Press, 1995), the editor of *Planet Dora* (Westview, 1997) and a co-editor of *The Bombing of Auschwitz* (St. Martin's, 1999). A new member is appointed annually to the *Osiris* Editorial Board; recommendations for appointments should be sent to: Kathryn M. Olesko, Department of History, Georgetown University, Washington, DC 2005, or kolesko@gusun.georgetown.edu.

CONFERENCE REGISTRATION FORM

electronic registration is strongly encouraged

<http://depts.washington.edu/hsexec/annual/register.html>

Meeting dates are 4-7 November 1999

Please note: Conference registration does **not** include hotel reservations. To reserve a room at the conference hotel, please turn to page 5.

Category (please circle): HSS Member Non-member Exhibitor

Name (as will appear on name tag): _____

Institution (as will appear on name tag): _____

Address: _____

City: _____ **State/Province:** _____ **Zip/Postal Code:** _____

Country: _____ **Telephone:** _____ **E-mail:** _____

	EARLY-REGISTRATION	REGISTRATION (received after 6 October)	No.	Subtotal
HSS Member	\$60.00	\$80.00	_____	_____
HSS Student Member	\$35.00	\$45.00	_____	_____
Non-member	\$75.00	\$95.00	_____	_____
Student non-member	\$50.00	\$60.00	_____	_____
Low-income or retired	\$40.00	\$50.00	_____	_____

Banquet, 6 November 1999

Please circle meal choice:

chicken

meat

vegetarian

\$35.00

\$35.00

Please indicate any special dietary requirements _____

TOTAL OF ALL CHARGES: _____

Payment Information

Conference Registration Form and payment by check, money order, or credit card must be received by **6 October 1999** to take advantage of early registration rates. Return to HSS Executive Office, Attn: Annual Meeting Registration, University of Washington, Box 351330, Seattle, WA 98195-1330, USA. Phone: (206) 543-9366, Fax: (206) 685-9544, E-mail: hsexec@u.washington.edu.

Check (in US dollars) payable to the **History of Science Society**.

Credit Card: Visa and Mastercard only!

Credit Card # _____

Exp. Date _____ Signature _____

Full refund if requested by **6 October 1999**.

HOTEL RESERVATION FORM

The Westin William Penn is pleased to welcome the
HISTORY OF SCIENCE SOCIETY, 4-7 November 1999

Schedule of Rates

Single.....\$109
 Double.....\$109
 Triple.....\$129
 Quadruple.....\$149

Terms

- Room rates are subject to local taxes, currently 14%
- Check-in time is 3:00 p.m. and check-out is 1:00 p.m. Late check out subject to availability
- Children under age 18 are free when occupying the same room with an adult
- Cancellation notice for refunds is required 72 hours prior to scheduled arrival
- Special requests honored on a space-available basis
- Maximum four persons per room
- Any change made to this reservation after check-in (including early departure) is subject to a \$25.00 administrative fee
- Deluxe Room Accomodations (exterior room view) available for \$10.00 over prevailing rate

Name: _____

Roommate(s) (if applicable): _____

Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____

Country: _____ Telephone: _____ Fax: _____

I will arrive on _____ Day/Date/Time I will depart on _____ Day/Date/Time

Accomodations

- | | | |
|--|---|---|
| <input type="checkbox"/> Single | <input type="checkbox"/> Accessible room requested | <input type="checkbox"/> Guarantee my room for late arrival. I have enclosed one night's room and tax deposit. |
| <input type="checkbox"/> Double (2 persons/1 bed) | <input type="checkbox"/> Non-smoking room requested | <input type="checkbox"/> Guarantee my room for late arrival. Please charge my credit card one night's room and tax: (please circle one) AX VS MC Discover CB DC |
| <input type="checkbox"/> Double (2 persons/2 beds) | <input type="checkbox"/> Roll-away bed requested (one-time \$25.00 additional charge) | |

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For more information, call the Westin William Penn at 412-281-7100 (FAX: 412-553-5252).

Or, to make reservations by phone call the Central Reservation Office at 800-228-3000. Identify yourself as attending the History of Science Society meeting to receive the group rate. Reservations must be received by **4 October 1999** to receive the special rate.

1999 Semisesquicentennial Program

Please note that this program is subject to change. For the most up-to-date program, please visit our Web site at <http://depts.washington.edu/hssexec/annual/program99.html>

Thursday, November 4

Executive Committee Meeting, 9:00 a.m.–12:00 p.m.
Book Exhibit Set-up, 2:00–5:00 p.m.
HSS Council Meeting, 1:00–5:00 p.m.
Registration, 3:00–7:00 p.m.
Opening Reception, 7:00–9:00 p.m.

Plenary Session 5:00–7:00 p.m.

75 years of HSS: Perspectives from SHOT, PSA, SSSS, & BSHS

Terry S. Reynolds, *President, SHOT, 1998–2000*, and **Bruce E. Seely**, *Executive Secretary, SHOT, 1990–1996*, Parent or Older Sibling?: The History of Science Society and the Founding of the Society for the History of Technology

Richard Jeffrey, *President, PSA*, The Career of Logical Empiricism

Sheila Jasanoff, *President, SSSS*, Reconstructing the Past, Constructing the Present: Can Science Studies and History of Science Live Happily Ever After?

Ludmilla Jordanova, *President, BSHS*, Is there an Anglo-American Historiography of Science?

Session Organizers: Frederick Gregory, University of Florida, and Edith Dudley Sylla, North Carolina State University

Friday, November 5

Registration, 8:00 a.m.–5:00 p.m.
Book Exhibit, 8:00 a.m.–5:00 p.m.
DVHSP Meeting, 7:30–9:00 a.m.
Women's Caucus Meeting, 7:30–9:00 a.m.
Isis Editorial Board Meeting, 7:30–9:00 a.m.

9:00–11:45 a.m.

*indicates session organizer(s)

Roots of the History of Science

Tore Frangsmyr, *Uppsala University*, History of Science as History of Civilization: George Sarton's Program

Maura C. Flannery, *St. John's University*, Science and Religion: Reconsidering the Work of Lynn White, Jr.

Adam J. Foster, *University of Toronto*, In Dilthey's Shadow: Hermeneutics and the History and Philosophy of Science
I.B. Cohen, *Harvard University*, Context and Construction: Allies of the History of Science Old and New

Commentator & Chair: Ed Grant, *Indiana University*

Experimental and Conceptual Tools in the Development of Organic Chemistry

***Melvyn C. Usselman**, *University of Western Ontario*, Liebig's "Kaliapparar" and the Elemental Analysis of Organic Compounds: A Reconstruction and Reevaluation
 ***Alan J. Roche**, *Case Western Reserve University*, Organic Analysis in France: Apparatus, Method, Theory, and Style
Ursula Klein, *Max Planck Institute for the History of Science*, Paper-tools and the Formation of a New Experimental Culture in 19th-century Chemistry

Commentator & Chair: Mary Jo Nye, Oregon State University

Corruption, Fraud, and Misconduct in American Science

***Paul Lucier**, *Rensselaer Polytechnic Institute*, The Great California Oil Swindle: Silliman, Whitney, and the Ethics of Scientific Consulting

Tal Golan, *Dibner Institute for the History of Science and Technology*, The Common Liar, the Damned Liar, and the Scientific Expert: Nineteenth Century

Debates Concerning Scientific Expert Testimony

Claudia Clark, *Central Michigan University*, "Let Me Give You an Unbiased Opinion": A Case Study of Corporate-sponsored Industrial Health Researchers Deceiving Radium
Daniel J. Kevles, *California Institute of Technology*, The Baltimore Case: Obligations, Judgment, and Data

Chair: *Paul Lucier, Rensselaer Polytechnic Institute

Bridging the Disciplinary Divide: Modelling and the Interactions Between Economics and the Sciences in the Twentieth Century

Marcel Boumans, *University of Amsterdam*, The Economic World in Which We Live
 ***Suman Seth**, *Princeton University*, Bulls, Bears and Brownian Motion: Physics and the Rationality of Stock-Market Pricing
Judy Klein, *Mary Baldwin College*, Controlling Gunfire: Inventory and Expectations with the Exponentially Weighted Moving Average

Phillip Mirowski, *University of Notre Dame*, From Quantum Mechanics to Cyborgs: John von Neumann and 20th Century Economics
Commentator & Chair: Mary Morgan, London School of Economics

Theory and Practice in Early Modern Navigation

Lesley B. Cormack, *University of Alberta*, Edward Wright and Thomas Harriot: The Case for Navigation as a Transformative Site for the Scientific Revolution

Alison D. Sandman, *University of Wisconsin, Madison*, Who Marks the X?: Theoreticians

Women's Caucus Annual Meeting

The Women's Caucus will hold its annual breakfast meeting on Friday, 5 November, from 7:30–9:00 a.m. at the HSS Semisesquicentennial Meeting in Pittsburgh. The aims of the Caucus are to facilitate networking and other professional opportunities for women historians of science and to encourage teaching and research on historical studies of women and gender in science and technology. We cordially invite interested individuals (especially graduate students and young scholars) to attend. We look forward to seeing you in Pittsburgh!

vs. Practitioners in the Construction of Sea Charts in 16th-century Spain

***Eric H. Ash**, *Princeton University*, Secants and Sailors: Mathematical Expertise and the Art of Navigation in Elizabethan England
Roxani E. Margariti, *Princeton University*, Navigational Encounters: Theory and Practice of Indian Ocean Navigation by Arabs, Ottomans and Portuguese in the 16th Century
Commentator & Chair: Peter Dear, Cornell University

All God's Creatures: Religion and Science in Natural History

***Monique Bourque**, *University of Pennsylvania*, The 'Fabrick of Insects' and the 'Omnipotence of God': Nature as a Reflection of Divine Intention in the Works of Thomas Moffett

Clara Pinto-Correia, *Universidade Lusofona de Humanidades e Tecnologias (Lisbon, Portugal)*, God Under the Lens

Lynda S. Payne, *University of Missouri-Kansas City*, Hysterical and Hypochondriac Creatures: God, Nature, and Science in the Medical Passions of Enlightenment Britain
Robert J. Richards, *University of Chicago*, The God of the Origin: Darwin's Romantic Transformation of Nature

Commentator & Chair: Paula Findlen, Stanford University

Scientific Texts, Political Texture: Post-Cold War Perspectives on Soviet Science

Kirill O. Rossianov, *Institute for History of Science and Technology, Moscow*, Traveling with Bolsheviks: Field Work, Expeditions, and their Patrons

Karl Hall, *Harvard University*, Tests of Strength: Soviet Physics and Industry during the First Five Year Plan

***Alexei B. Kojevnikov**, *American Institute of Physics*, Freedom, Collectivism, and Quasiparticles: Social Metaphors in Quantum Physics

***Slava Gerovitch**, *Massachusetts Institute of Technology*, Speaking Cybernetically: The Discourse of Objectivity in the Post-Stalin Era
Commentator: Peter Galison, Harvard University

Chair: Loren Graham, Massachusetts Institute of Technology

Physics From the 1930s

Dong-Won Kim, *Korea Advanced Institute of Science and Technology*, Y. Nishina and the Japanese Physics Community in the 1930s

Matthew Frank, *University of Chicago*, What Mathematics owes to Quantum Mechanics: The work of von Neumann, 1927-1932

Andris V. Krumins, *Institute for the History and Philosophy of Science and Technology*, Symmetry, Conservation Laws, and Nuclear Interactions

Robert G. Arns, *University of Vermont*, The Neutrinos: Conjectures in Search of Evidence

Kent W. Staley, *Arkansas State University*, Lost Origins of the Third Generation of Quarks: Philosophy, Theory, and Experiment
Chair: TBA

Forum for the History of Science in America, 12:00-12:30 p.m.

Committee on Honors & Prizes Meeting, 12:00-1:30 p.m.

Committee on Education Meeting, 12:00-1:30 p.m.

Committee on Finance, 12:00-1:30 p.m.

1:30-3:10 p.m.

*indicates session organizer(s)

The Politics of Cancellation: Recent Science, the Public Policy Process, and Organized Protest

Diana P. Hoyt, *National Aeronautics and Space Administration*, The Politics of Monkey Business: How it Came to Be that NASA Abandoned the Bion Project

Victoria P. Friedensen, *National Academy of Engineering*, Translating Risk: Public Protest of Technologies for Space Exploration
Michael N.M.I. Riordan, *Institute for Particle Physics, University of California, Santa Cruz*, The Termination of the Superconducting Super Collider

Commentator: Teresa L. Kraus, Federal Aviation Authority

Chair: *Roger D. Launius, National Aeronautics and Space Administration

Building a Better American: Eugenics and Middle-Class Culture in the Progressive Era

***Matthew Pratt Guterl**, *Rutgers University*, 'Homo Albus': Science, War, Middle-Class Patriotism, and the Emergence of Optic Whiteness

Janet C. Olson, *Northwestern University Library*, 'A Fantasy of Magazine Science': American Popular Magazines and the Eugenics Movement, 1900-1924
Tanya Hart, *Yale University*, Black and Italian Infant Mortality in New York City, 1915-1924

Commentator: Heather Munro Prescott, Central Connecticut State University
Chair: JoAnne Brown, The Johns Hopkins University

Ecology and Environment

Maureen A. McCormick, *University of Oklahoma*, The Intersection of Environmental Determinism and Reproductive Limits in Frank Fraser Darling's Ecology

Thomas Potthast, *Max Planck Institute for the History of Science*, Origins and Obstacles of Bioethics: Ecologists and Morals in Germany as Compared to North America, 1930-1960

Gale E. Christianson, *Indiana State University*, From Benevolence to Menace: The Scientific Biography of Global Warming
Jens Lachmund, *Max Planck Institute for the History of Science*, Maps, Biotopes and the City: Urban Bio-Ecological Mapping in Germany, 1970-1998

Chair: TBA *MA ALONE*

Images of Human Nature

Kathleen M. Crowther-Heyck, *Johns Hopkins University*, Fetal Positions: Embryology and Eschatology in Sixteenth-Century Germany

Joseph M. Gabriel, *Rutgers University*, "The Cocaine Nigger Sure is Hard to Kill": Sex, Medicine, and the Racial Politics of Cocaine, 1880-1914

Susan A. Miller, *University of Pennsylvania*, 'She Knows She is Master': Eugenics and the Camp Fire Girls

Greg J. Downey, *Johns Hopkins University*, Embodying Information: Telegraph Messenger Boys as both Technologies and Agents

Chair: TBA

Negotiating the Boundaries of Mind and Machine

Otniel E. Dror, *Getty Research Institute for the History of Art and the Humanities*, The Clog in the Machine: Emotion and Disorder in the Laboratory and Clinic

This still occurred?

David E. Millett and **Cornelius Borck**, *University of Chicago and Max Planck Institute for the History of Science*, Navigating the sea of brain waves: Electroencephalography in the 1930s and 1940s

Tara H. Abraham, *University of Toronto*, Physio(logical) Circuits: The Origins and Legacy of the Neural Networks of McCulloch and Pitts
Katharine Wright, *University of Toronto*, Cybernetics and the Politics of Knowledge
Chair: TBA

Localization of Scientific Knowledge

Margaret Meredith, *University of California, San Diego*, How Knowledge Travels: Collaboration and Credit in Early American Natural Historical Inquiry

Maria M. Lopes and **Silvia Fernanda de Mendonca Figueiroa**, *Instituto Geociencias-Universidade de Campinas- UNICAMP*, Natural Sciences in Brazil: Local Aspects of the 'Mondialization' of Sciences in the 19th Century
Andrew Zimmerman, *Columbia University*, Nature and Knowledge-Power at the Hamburg Colonial Institute

Mina Kleiche, *Université Paris7-CNRS (France)*, To Convert the Morocco into a Vast Orchard: To Introduce New Agricultural Methods from California to Morocco During the 1930's
Chair: TBA

Interconnections in 18th-century Science

Alexandra V. Bekasova, *Institute for the History of Science and Technology, Russian Academy of Sciences*, "In Search for Sciences": Russian Students in European Universities at the Second Half of the Eighteenth Century
Carl Frangsmyr, *Uppsala University*, Culture and Climate: A Swedish 18th-century Discussion
Jeff Loveland, *University of Cincinnati*, Did Buffon Copy Price?: When Bayesian Results are not Necessarily Bayesian

Henk Kubbinga, *University of Groningen*, Laplace and the Rise of Molecularism
Chair: TBA *John Richards*

Science, Technology, Industry and Universities

Jean-Francois Auger, *Centre interuniversitaire de recherche sur la science et la technologie*, Toward a History of University, Industry and Government Relations: Contractual Research in Canadian Universities

Scott G. Knowles, *Johns Hopkins University*, The Symbol of Safety: Underwriters' Laboratories and the Rise of Consumer Product-Testing in the United States, 1903-1917

Peter D. Reffell, *University of Leeds*, Sciences of Management, Technologies of Organisation: Humans and Machines in the Early Development of the Computer in the US 1900-1930

Thomas C. Lassman, *Johns Hopkins University*, University-Industry Relations in Pittsburgh: Edward Condon and the Rebirth of Industrial Research at Westinghouse, 1937-1945

Chair: TBA

3:30-5:20 p.m.

*indicates session organizer(s)

The Late, Great Scientific Revolution

Andrew Cunningham, *University of Cambridge*, The Success of the Scientific Revolution

***Margaret J. Osler**, *University of Calgary*, The Canonical Imperative: Rethinking the Scientific Revolution

J.E. McGuire, *University of Pittsburgh*, Capturing the Past to Seize the Future: Tradition and the Emergence of the New Science

Commentator & Chair: Robert S. Westman, *University of California, San Diego*

Gender and Science: Transnational and Cross-Cultural Perspectives

Ann Hibner Kolbitz, *Arizona State University*, Transnational Studies of Gender & Science: Toward a Broader Perspective

Mary F. Singleton and **Pnina G. Abir Am**, *University of California, Berkeley*, Leadership and Gender in Science from Margaret Thatcher to Kalyani: British and Foreign Female Progeny of Nobel Laureate Dorothy Hodgkin

***Abha Sur**, *MIT*, Ordinary/Extraordinary: India's First Women Physicists
Commentator & Chair: Andrea Rusnock, *Rensselaer Polytechnic Institute*

Personal Identity and Scientific Practice

***Leo B. Slater**, *Chemical Heritage Foundation*, A Career in Steroid Chemistry: Percy Lavon Julian and the Intersections of Science, Business, and Identity

David C. Brock, *Princeton University*, Neurasthenia and the Ruthless Discipline of Measuring Physics: A.A. Michelson's Confrontation with the Values of Precision
Ralph R. Hamerla, *Case Western Reserve University*, Laboratory Practice and Edward Morley's Personal Identity, 1881-1895
Carsten Reinhardt, *University of Regensburg*, Reinventing Nuclear Magnetic Resonance for Chemistry: Herbert S. Gutowsky Between Disciplines and Identities, 1948-1968
Chair: *Leo B Slater, *Chemical Heritage Foundation*

Reconsidering the Amateurs in Science

John T. Spaight, *Cornell University*, Redrawing the Boundaries: On the Usefulness of the Terms Amateur and Professional in Describing Eighteenth-Century Astronomy
Samuel J.M.M. Alberti, *Universities of Leeds and Sheffield, UK*, A Varied Stable: The Multiplicity of Victorian Amateur Natural History Practices

***Thomas R. Williams**, *Rice University*, The Evolution of Amateur Astronomy in the United States in the Twentieth Century
Commentator: Ronald L. Numbers, *University of Wisconsin, Madison*
Chair: Marc Rothenberg, *Smithsonian Institution*

Real Science Wars: New Approaches to a Classic Issue

Brett D. Steele, *University of California, Los Angeles*, Why the Scientific Revolution was so Revolutionary: Mechanics and the Mechanization of Early Modern Military Culture

Mary J. Henninger-Voss, *Princeton University*, The Arsenal as a House of Experiment
***Michael A. Dennis**, *Cornell University*, Gone to War: Henry Guerlac at the Radiation Laboratory
Commentator: Pamela O. Long, *Independent Scholar*

Chair: Michael A. Dennis, *Cornell University*

On the Importance of Having Standards

***Amy Slaton**, *Drexel University*, Materials Standards for Industry and the Obstacle of Scientific Fixity

Susan Lindee, *University of Pennsylvania*, Squashed Spiders: The Standardization and Medicalization of the Human Chromosomes, 1959-1965

*Arne Hessenbruch, *Dibner Institute*, Biological, Physical, Technical Standards: What do They Have in Common?
Commentator: Angela Creager, Princeton University
Chair: TBA

The Same and Not the Same: Changing Theory and Representational Inertia in Chemical Models, 1857–1940

Christopher J. Ritter, *University of California, Berkeley*, The Impulse to Visualize and Meaning-in-Practice: Chemical Models, 1857–1874

*Peter J. Ramberg, *Max Planck Institute for the History of Science*, Representational and Exemplary Models in Stereochemistry, 1874–1900

Eric Franceour, *Max Planck Institute for the History of Science*, Fleshing Out Atoms: The Early History of Space-Filling Models
Commentator & Chair: Stephen J. Weininger, Worcester Polytechnic Institute

Writing and Reading a Scientific Classic: Making Sense of Maxwell's "Treatise on Electricity and Magnetism"

*Andrew C. Warwick, *Imperial College*, From Maxwell's "Treatise" to the Cambridge Maxwellians

Bruce J. Hunt, *University of Texas*, Taking the Measure of Maxwell's "Treatise"
 Ronald Anderson, *Boston College*, Exploring the Mathematical Strategies of Maxwell's "Treatise"

Commentator & Chair: Jed Z. Buchwald, *Dibner Institute for the History of Science and Technology*

HSS Reception, 5:30–7:30 p.m.

Interest Group Meetings

History of Astronomy,
 History of Early Science
 History of Chemistry

7:30–9:00 p.m.

*indicates session organizer(s)

Beyond the Term Paper: Assigning and Assessing Non-Traditional Projects in the History of Science

Cathy Gorn, *National History Day*, Evaluating National History Day Projects

James Evans, *University of Puget Sound*, Hands-On Projects in Pre-Modern Astronomy
 Timothy Lenoir, *Stanford University*, Science and Technology in the Making (STIM): Media-Intensive Tools for Teaching and Research

Joseph N. Tatarewicz, *University of Maryland Baltimore County*, Alternative Literary Forms of History—Conceiving, Executing, and Evaluating
Chairs: *Lisa Rosner, Richard Stockton College and Diane Lashinsky, Shorecrest H.S.

Historicizing Intelligence: A Critical Appraisal of Leila Zenderland's *Measuring Minds*: Henry Herbert Goddard and the Origins of American Intelligence Testing

Session sponsored by the Forum for the History of the Human Sciences

John Carson, *University of Michigan*, From the Pathological to the Normal: Zenderland on Goddard and the Meanings of Intelligence in America

Hans Pols, *Max Planck Institute for the History of Science*, Henry Herbert Goddard, Feeble-mindedness, and the Debate on Citizenship

Garland E. Allen, *Washington University*, Feeble-mindedness and the Biology of Criminality: The Wedding of Goddard's Criminal Imbecile and Eugenics in the Municipal Court of Chicago

Commentator: Leila Zenderland, *California State University—Fullerton*
Chair: *John P. Jackson, *University of Colorado—Boulder*

Workshop on Writing in Science: Its Past and Future

Alexander J. Boese, *University of California, San Diego*, The Great Moon

Hoax of 1835: Science and Enlightenment in Antebellum America

Robert Hendrick, *St. John's University*, "Coating the Edge of the Cup": The Scientist as Popularizer in Fin-de-Siècle France

Wade E. Pickren, *American Psychological Association*, APA Archives and the APA Public Information Campaign Since WWII

Bruce V. Lewenstein, *Cornell University*, Have Books Mattered in American Science Since 1945?

Chair: TBA

Historical Writing on American Science Revisited: The Current State of the Field—Part I

Session sponsored by the Forum for the History of Science in America in celebration of its 15th anniversary:

Ronald R. Kline, *Cornell University*, Historical Writing on Business, Technology, and Industrial Research

Early Science Interest Group: Eat, Drink and Discuss Where the Field is Heading

Announcing a Symposium on

Sources and Resources: The Immediate Future of the Distant Past

Conversation Moderators:

(Ancient) Alex Jones and Jim Lennox
 (Medieval) Joan Cadden and Jamil Ragep
 (Early Modern) Maggie Osler and Bill Newman

Everyone is welcome to join us. Details of venue and cost are still to be determined. Deadline to sign up is 15 September 1999, but early expressions of interest will help in planning. We have funds to help offset costs of the meal for graduate students and those not employed; please let us know as soon as possible if you are eligible.

Please contact Liba Taub to sign up and be placed on the mailing list: lct1001@hermes.cam.ac.uk or by fax 44-1223-334554.

This Symposium is organised in memory of Wilbur Knorr.

James R. Fleming, *Colby College*, The Historiography of Science, Technology and the Environment: An American Perspective
Keith Wailoo, *Harvard University*, The Body in Parts: Recent Historiography on Disease and the Biomedical Sciences

Commentator: Sally Gregory Kohlstedt, University of Minnesota

Chair: *Clark A. Elliott, Harvard University and Dibner Institute for the History of Science and Technology

Session also organized by Jessica Wang and Karen Rader

Saturday, November 6

Registration, 8:00 a.m.–2:00 p.m.

Book Exhibit, 8:00 a.m.–5:00 p.m.

Committee on Diversity Meeting, 7:30–9:00 a.m.

Committee on Independent Scholars, 7:30–9:00 a.m.

Nominating Committee, 7:30–9:00 a.m.

Forum for the History of Science in America Coordinating Committee, 7:30–9:00 a.m.

9:00–11:45 a.m.

*indicates session organizer(s)

The History of the Discipline: ca 1930–1950

***Diederick Raven**, *Utrecht University*, Zilsel's Project on the Emergence of Modern Science

***Anna K. Mayer**, *HPS, Cambridge (UK)*, Setting up a Discipline: Disputes on the HS Committee, 1936–1951

Everett Mendelsohn, *Harvard University*, Science at a Crossroads: Defining and Prescribing an Uncertain Future

Roger Hahn, *University of California, Berkeley*, History of Science at Berkeley Before and After World War II

Commentator: Arnold Thackray, Chemical Heritage Foundation

Chair: David Lindberg, University of Wisconsin, Madison

The New History of Astronomy: A Session in Honor of Bernard R. Goldstein

Alan C. Bowen, *Institute for Research in Classical Philosophy and Science*, Simplicius and the Early History of Greek Planetary Theory

José Chabás, *Universitat Pompeu Fabra, Barcelona*, The Diffusion of the Alfonsine Tables: The Case of the "Tabulae Resolutae"

Michael H. Shank, *University of Wisconsin, Madison*, Goldsteinian Themes in Regiomontanus's Defense of Theon

***Peter Barker**, *University of Oklahoma*, Constructing Copernicus

Commentator: Bernard R. Goldstein, University of Pittsburgh

Chair: Nancy Siraisi, Hunter College and the Graduate School City University of New York

Off Color: The Science, Art, and Politics of Seeing Beyond Black and White

***Theresa Levitt**, *Harvard University*, Le rouge et le vert: Colors of Opposition in Restoration France

Tim Lenoir, *Stanford University*, "To Make Sensuous Man Rational, You Must First Make Him Aesthetic:"—Physiological Aesthetics and the Normalization of Taste in Germany, 1860–1895

***Debbie Coen**, *Harvard University*, The "Irreplaceable Eye" and the "Irrecoverable I": Human and Mechanical Detectors in Viennese Physics, 1918–1926

Michael Lynch, *Brunel University*, The Composition of Objects: False Colour and Digital Images

Commentator: M. Norton Wise, Princeton University

Chair: Erwin Hiebert, Harvard University

Mendel: The First Dozen Years (1900–1912+)

Marsha L. Richmond, *Wayne State University*, Richard Goldschmidt's Epigenetic Interpretation of Mendelism

Hans-Joerg Rheinberger, *Max Planck Institute for the History of Science*, Carl Correns: After Mendel and Beyond

Ida H. Stamhuis, *Vrije Universiteit Amsterdam*, Mendelian Genetics and Probabilistic Reasoning: A Fruitful Combination

***Frederick B. Churchill**, *Indiana University*, August Weismann in a Mendelian World

Commentator: Robert Olby, University of Pittsburgh

Chair: William Provine, Cornell University

Cold War Politics and American Science, 1940s–1960s

James Strick, *Arizona State University*, NASA, the Cold War and the "Nucleic Acid Monopoly": Sidney Fox, Stanley Miller and Origin of Life Research, 1953–1972

David K. van Keuren, *Naval Research Laboratory*, Cold War Science in Black and White: U.S. Intelligence Gathering and Its Scientific Cover at the Naval Research Laboratory, 1948–1962

Maura P. Mackowski, *Arizona State University*, Human Factors: Science, Technology, and Cold War Politics in the NASA Astronaut Selection Process

***Mark Solovey**, *Arizona State University*, *WEST*, Social Science on the Cold War Battlefield: Project Camelot and the 1960s Debate Over Scholarly Objectivity and the Political Corruption of Research

Commentator & Chair: Bart Hacker, Smithsonian Institution

Readers and Publics for Early Modern Science

Alix Cooper, *University of Puget Sound*, Death and the Naturalist: The Labor of Posthumous Publication in Early Modern Europe
Alice Walters, *University of Massachusetts at Lowell*, The Profits of Plagiarism: Henry Baker, George Adams, and "The Microscope Made Easy"

***Mary Terrall**, *University of California, Los Angeles*, Fashionable Readers of Natural Philosophy

Thomas H. Broman, The Segmentation of the Literary Market and Periodical Publishing in the 18th Century

Commentator & Chair: Ann Blair, Harvard University

Astrological and (Al)Chemical Themes in Early Science

James A. Altena, *University of Chicago*, Elements, Mixis and Dynamis: Aristotelian Chemistry Reconsidered

Daryn R. Lehoux, *University of Toronto*, Causation in Ancient Astrological Weather Prediction

Steven R. Vanden Broecke, *K.U. Leuven*, The Low Countries and the Expectation of a Second Flood in February 1524

Margaret D. Garber, *University of California, San Diego*, Naturalizing the Spectrum: Observation, Alchemy, and the Physics of the Rainbow

H. Darrel Rutkin, *Indiana University*, Galileo Astrologer: New Perspectives on his Early Career

Chair: TBA

Victorian Women Bridging Art and Science

Barbara T. Gates, *University of Delaware*, Of Fungi and Fables: Beatrix Potter's Science and Storytelling

Ann B. Shteir, *York University*, Emma Peachey and Wax Flower Modeling

Marilyn Bailey Ogilvie, *University of Oklahoma*, To Look at One Thing and See Another: Two Women Geologists, Ida Ogilvie and Maria Ogilvie-Gordon

***Suzanne Le-May Sheffield**, *York University*, Painting Outside the Lines: Marianne North's Botanical Art

Commentator: Cynthia Russett, Yale University

Chair: Jennifer Tucker, Wesleyan University

Committee on Meetings & Programs, 12:00–1:30 p.m.

Committee on Research & the Profession, 12:00–1:30 p.m.

Forum for the History of Human Science, 12:00–1:30 p.m.

Committee on Publications, 12:00–3:00 p.m.

1:30–3:10 p.m.

*indicates session organizer(s)

Cognitive Understandings of Michael Faraday: New Tools and New Interpretations

David C. Gooding, *University of Bath*, Experimenting with an Experimentalist: the Computational Simulation of a Competent Experimentalist

Herbert A. Simon, *Carnegie Mellon University*, The Discovery of Magnetic Induction of Current: The Interplay of Phenomena and Concepts

***Ryan D. Tweney**, *Bowling Green State University*, Faraday and the "Golden Green": Metacognition and Discovery in Victorian Science

Commentator: TBA

Chair: *Ryan D. Tweney, Bowling Green State University

Putting Fraud on Trial: Dishonest Quacks, False Alchemists and Deceptive Painters in Early Modern Europe

***Tara E. Nummedal**, *Stanford University*, 'Proper Bees' and 'Rotten Drones': True and False Alchemists in Early Modern Central Europe

Claudia Stein, *University of Stuttgart, Institute for the History of Medicine*, Early Modern Medical Identity: Charlatans on Trial in Sixteenth-Century Augsburg

Janice L. Neri, *University of California, Irvine*, Truth, Deception and Illusion in Sixteenth-Century Images of Nature

Commentator & Chair: William Eamon, New Mexico State University

Science, Popular Literature, and Narrative Traditions

Michael F. Robinson, *University of Wisconsin*, Blonde Eskimos and Yellow Journalism: Reforming the Arctic Narrative in Progressive America

Gary M. Kroll, *University of Oklahoma*, The Self-Effacing Hero of Science: William Beebe and his Literature of Oceanic Natural History

***Craig S. McConnell**, *University of Wisconsin*, Universal Myths: Narrative Expectations and the Origin of the Cosmos

Commentator: D. Graham Burnett, University of Oklahoma

Chair: TBA

Intersections of the Moral and the Natural in the Scottish Enlightenment
Paul Wood, *University of Victoria*, Science, Politeness, and the Scottish Universities in the Enlightenment

***Margaret Schabas**, *York University*, David Hume and Experimental Science

Anita Guerrini, *University of California, Santa Barbara*, Virtuous Performance: Monro primus, Hutcheson, and Public Anatomy

Commentator: Roger Emerson, University of Western Ontario

Chair: Trevor Levere, University of Toronto

Internationalism and Science

Mark R. Finlay, *Armstrong Atlantic State University*, International Science on the

Fringes: Agricultural Sciences and the Culture and Language of International Science'
***Helen M. Rozwadowski**, "Fish Know No National Frontiers": Internationalism and Environmental Pragmatism in European Marine Science

Sverker Sorlin, *Umea University*, International Cooperation in Scandinavian Polar Geoscience, 1930–1960: Variations on Heroes and Nationalism

Commentator: Daniel Alexandrov, European University at St. Petersburg

Chair: *Helen M. Rozwadowski

Museology and Medicine in the 19th and 20th Centuries

M. Rene Burmeister, *Rutgers University*, Public Instruction or 'Obscene Advertising?': Popular Anatomical Museums in Nineteenth-century London

***Constance A. Malpas**, *Princeton University*, Organizing Pathology: The Architecture of Anatomy at Mid-Century

Erin H. McLeary, *University of Pennsylvania*, Pathologists, Professionalism, and the Public: The Medical Museum Enters the Twentieth Century

Commentator: John Harley Warner, Yale University

Chair: Gretchen Worden, Mütter Museum, College of Physicians of Philadelphia

Personal Trajectories in Science and the Humanities

Graham R. Shutt, *University of Washington*, Emerson and the Uses of Natural History

Joel S. Schwartz, *College of Staten Island, CUNY*, Out from Darwin's Shadow: George John Romane's Efforts to Popularize Science

Maria M. Farland, *Columbia University*, Gertrude Stein's "Brain Work"

Charles R. Thorpe, *Max Planck Institute for the History of Science*, The Cultivated Expert: Self and Power in the Career of J. Robert Oppenheimer

Chair: TBA

Twentieth-Century War, Government, and Science

Ann Johnson, *Fordham University*, Rebuilding the Engine: British Science Policy after World War I

Amy S. Bix, *Iowa State University*, Physics and Chemistry for Victory: America's Engineering, Science, and Management War Training Program, 1940-45

Hunter A. Crowther-Heyck, *Johns Hopkins University*, A Place at the Table: the Social Sciences and the Federal Patron
Edward Jones-Imhotep, *Harvard University*, Dispatches From the Border: Cold War Military Culture and the Reliability of Scientific Satellites

Chair: TBA

3:30-5:20 p.m.

*indicates session organizer(s)

Scientific Personae

Francesca M. Bordogna, *University of Notre Dame*, Three Rival Scientific Personae in American Psychology, 1890-1920

Myles W. Jackson, *Willamette University*, Harmony and Camaraderie: The Persona of the Naturforscher

Andrew Mendelsohn, *Max Planck Institute for the History of Science*, The Scientist as Technocrat

Commentator & Chair: *Lorraine Daston, Max Planck Institute for the History of Science

Refocusing the Spotlight: From Science Stars to the Backstage Crew

Diana E. Long, *University of Southern Maine*, Their Secret Gardens: Women and the Pleasures of Endocrine Laboratory Life, 1930-1960

Joy Harvey, *Harvard University*, The Mystery of the Nobel laureate and the Vanishing Wife

***Mary Brown Parlee**, *MIT*, Visible Bodies and Invisible Work: Gender, Scientific Authority, and the Institutionalization of the Neurosciences at MIT

Commentator: TBA

Chair: Mary Brown Parlee, MIT

A Comparative Approach to Science and Ideology

Walter Grunden, *Bowling Green*, and **Zuoyue Wang**, *California State Polytechnic University at Ponomo*, 'Ideologically Correct' Science

Yakov Rabkin, *University of Montreal*, Science and Totalitarianism

Richard Beyler, *Portland State University*, Science Policy in Post-1945 West Germany

and Japan between Ideology and Economics
Stuart Leslie, *Johns Hopkins University*, Korean Science at the Crossroads
Chair: *Mark Walker, Union College

Making Science Travel, Travel in the Making of Science: The Role of 17th- & 18th-century Corporate Networks

Harold J. Cook, *University of Wisconsin-Madison*, Introducing Asian Medicine to Europe: The Dutch East India Company and its Rivals

Gerald A. Ward, *Dibner Institute and Boston University*, From Merchant Adventurers to Merchants of Light: The Advent of English Joint-Stock Trading Companies and the Making of Bacon's *Great Instauration*

Florence C. Hsia, *Northwestern University*, Cherishing Observations from Afar: European Contexts for Jesuit Astronomical Work in China

***Steven J. Harris**, *Wellesley College & Boston College*, Cumulative Representations: How Corporate Networks Help Make Science Globally Mobile & Locally Progressive

Chair: *Steven J. Harris, Wellesley College & Boston College

Philosophies of Social Science in the French and American Traditions

Daniela S. Barberis, *University of Chicago*, Durkheim, Duhem, and the Misfortunes of Realism

***David L. Hoyt**, *University of California, Los Angeles*, Sociology's Primitives and the Empire's Associates: Greater France, 1890-1914

Dave Madden, *University of Chicago*, Culture, Personality, and the Philosophy of Social Science in American Anthropology between the First and Second World Wars

Commentator & Chair: John Gilkeson, Arizona State University

Bodies of Knowledge of Bodies in 18th-century France

Emma Spary, *Max Planck Institute for the History of Science, Berlin*, Limiting Cases: Extraordinary Eaters as Surgical Bodies in 18th-century France

***Jonathan Simon**, *Centre de Recherche en Histoire des Sciences et des Techniques (CRHST)*, Skeletons in the Cabinet

Jessica Riskin, *MIT*, Moving Anatomies
Commentator: Lissa Roberts, San Diego State University

Chair: Henry Krips, University of Pittsburgh

"Chymistry" and "Chemistry"—Stability, Transformation, and Rejection in the Century Before Lavoisier

***William R. Newman**, *Indiana University*, An Ungentlemanly Gentleman: Boyle's Appropriation of Chymical Knowledge
Lawrence M. Principe, *Johns Hopkins University*, Experiment in Chymistry and the Notebooks of George Starkey
John Powers, *Indiana University*, History and Alchemy in the Chemical Work of Herman Boerhaave

Kevin Chang, *University of Chicago*, In Search of True Sulphur: Georg Ernst Stahl's "Zymotechnia Fundamentalis"

Chair: Lawrence M. Principe, Johns Hopkins University

Disease Entities in "Defined" Populations Within the Americas

Paul Kelton, *Southern Connecticut State University*, Avoiding the Smallpox Spirits: Epidemics and Southeast Indian Survival to 1800

George Joseph, *Yale University*, "A Colony in the Homeland": Leprosy and Tropical Medicine in Progressive Era Massachusetts
David Abernathy, *University of Washington*, Canal Cartographies: Disease, Territoriality, and Scientific Evidence in the Panama-Nicaragua Route Dispute

Commentator & Chair: *Michele Thompson, Southern Connecticut State University

HSS Distinguished Lecture

6:00-7:00 p.m.

Charles Coulston Gillispie, *Princeton University*

Introduction by: Theodore Porter, *UCLA*

Pre-Banquet Reception, 7:00-8:00 p.m.

HSS Banquet, 8:00-10:30 p.m.

Graduate Student Party, 10:30 p.m.-?

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Sunday, November 7

Book-Exhibit, 8:00 a.m.–12:00 p.m.

HSS Business Meeting, 8:00–9:00 a.m.

9:00–11:45 a.m.

*indicates session organizer(s)

Historical Writing on American Science

Revisited: The Current State of the Field—Part II

Session sponsored by Forum for the History of Science in America in celebration of its 15th anniversary:

***Jessica Wang**, *University of California, Los Angeles*, Science, Technology, and U.S. Political History: Current and Future Historiographical Directions

Katherine Pandora, *University of Oklahoma*, Varieties of Historiographic Experience: Writing Intellectual and Cultural Histories of American Science

Ronald E. Doel, *Oregon State University*, Foreign Pursuits: Linking Diplomatic History with the History of Science

Commentator: Margaret W. Rossiter, Cornell University

Chair: *Karen Rader, Sarah Lawrence College
Session also organized by Clark A. Elliott

Astronomy, Humanism, and the Literary Arts

Ralph Drayton, *University of Wisconsin*, "In the Heart of any Incepting Student": Religion and Medical Astrology in Montpelier c. 1400

Richard L. Kremer, *Dartmouth College*, From Text to Trophy: Shifting Functions of Regiomontanus's Library

***Karl L. Galle**, *Imperial College*, Was Copernicus also a Poet? The "Septem Sidera" and the Astronomer-Poet Tradition in Central Europe

Adam Mosley, *Cambridge University*, Truth and Correspondence: Some Comments on the Epistolary Genre and Early-Modern Astronomical Writings

Kristine L. Haugen, *Princeton University*, Varieties of Divination: Richard Bentley and the Astrological Poem of Manilius
Chair: James J. Bono, State University of New York, Buffalo

Is "Literature and Science" Historical?

Bernard Lightman, *York University*, The Story of Nature: Victorian Popularizers and Scientific Narrative

Jonathan Smith, *University of Michigan, Dearborn*, "Darwin's *Cirripedia* and Dickens's *Little Dorrit*"

***Laura Darrow Walls**, *Lafayette College*, "Consilience Revisited: or, Why Should a Thoreauvian Read Whewell?"

Commentator: David Knight, University of Durham

Chair: George Levine, Rutgers University

The Computer as a Scientific Instrument

Stephen B. Johnson, *University of North Dakota*, Computers and the Practice of Psychology

Joel Hagen, *Radford University*, Computers as Scientific Instruments in Structural and Evolutionary Biochemistry

***Robert W. Seidel**, *University of Minnesota*, High Energy Physics and High Speed Computing

Commentator: & Chair TBA

Cutting-Edge Chemistry: Some 19th-century Russian Contributions

Session sponsored by Mendeleev Interest Group

Nathan M. Brooks, *New Mexico State University*, N.N. Zinin and Synthetic Dyes: The Road Not Taken

David E. Lewis, *University of Wisconsin, Eau Claire*, Zinc Alkyls in Synthetic Organic Chemistry: Cutting-Edge Chemistry at Kazan

Masanori Kaji, *Tokyo Institute of Technology*, D.I. Mendeleev and the Concept of Chemical Elements

***Richard E. Rice**, *James Madison University*, Hydrating Ions in St. Petersburg and Moscow, Ignoring Them in Leipzig and Baltimore
Commentator: & Chair TBA

The Enduring Search for Mechanisms

Peter K. Machamer, *University of Pittsburgh*, Origins of Science as Mechanisms

Jeffrey L. Ramsey, *Oregon State University*, Interpreting the 'Mona Lisa' of Chemical Reactions: Explanation, Mechanism and Methodological Values

***Lindley Darden**, *University of Maryland, College Park*, The Mechanism of Protein Synthesis in the 1950s–1960s: Biochemists vs. Molecular Biologists

Carl Craver, *Florida International University*, Discovering Long Term Potentiation

Commentator: Naomi Oreskes, University of California, San Diego

Chair: Philip Pauly, Rutgers University

Intersections and Contentions in 17th-century Science

Nicole C. Howard, *Indiana University*, Beyond Artificial Wings: A Reassessment of Hooke's Role in the History of Physiology

Fokko Jan Dijksterhuis, *University of Twente*, Once Snel breaks down: From Geometrical to Physical Optics in the Seventeenth Century

Prasanta S. Bandyopadhyay and Gordon Brittan, Jr., *Montana State University*, Gingerich's Kepler: What is Wrong with his Historiography of Science?

Matthew L. Jones, *Harvard University*, Accounting for Circle and Self: Leibniz and his Arithmetical Quadrature of the Circle

Alberto Guillermo Ranea, *Universidad Torcuato Di Tella*, Galileo's Authority and Its role in 17th-century Natural Philosophy
Chair: TBA

Alternative Approaches in the Biological Sciences

Kalevi Kull, *University of Tartu*, A Case of Anancasm: Nomogenetic School in Biology

Sabine Brauckmann, *University of Muenster*, Fields and Open Systems, or Two Models of Theoretical Biology

Elena A. Aronova, *Institute for History of Science and Technology, Russian Academy of Sciences*, Lamarckism, Neodarwinism, and Plant-lice: Interpreting Experiments in the Studies of Experimental Evolution

Stephane Castonguay, *Cornell University*, Crop Protection, Agricultural Sciences and the Fundamentalization of Applied Biology
Chair: TBA

Poster Competition

In response to the demand for pre-college-level teaching materials in the History of Science, the HSS Committee on Education is initiating an annual poster competition for undergraduate students. Undergraduates, singly or in teams, will design posters on history of science themes, suitable for classroom display in K–12 classrooms and as supplemental learning tools for teaching science.

Posters will be judged by a subcommittee of the CoE on originality of theme and expression and appropriateness for a K–12 audience. Winning entries will be produced professionally and distributed through the National Science Teachers Association.

Entries for the 1999 competition are due December 31, 1999, with winners notified by January 30, 2000. Winners will be honored at the 2000 meeting of HSS, and winning entries will be on display. There will be three prizes awarded, of \$250, \$150, and \$100, with matching prizes for the winning instructors.

Professors are urged to incorporate the poster competition into their curricula for next fall's classes in the history of science. It could be an extra-credit assignment, an option to replace a written assignment, a small-group project — there are many ways a poster project could be a rewarding learning experience for undergraduates. Only one entry will be accepted from each institution, so an internal competition to determine the entry is a prerequisite.

Questions? Detailed guidelines are available from Anita Guerrini, coordinator of the poster competition, Environmental Studies Program, University of California, Santa Barbara, CA 93106, guerrini@humanitas.ucsb.edu. Guidelines will also be posted on the Committee on Education section of the HSS web site.

History of Physics Syllabi on the Internet. Call for Syllabi.

As an aid to teaching and studying the history of physics, and as an introduction to the vast literature in the field, the Center for History of Physics of the American Institute of Physics has put together a collection of syllabi. With the kind permission of their authors, sample syllabi are exhibited on the internet at <http://www.aip.org/history/syllabi/>. They feature courses taught at a variety of universities, including "Scientific Revolution," "History of Modern Physics," "Nuclear Age," "Science after WW II," and "Historical Experimentation." If you are teaching a course on the history of physics or a related science, please visit our homepage and send us your comments. And please send a copy of your syllabus or reading list, in any paper or electronic format.

Alexei Kojevnikov and Spencer Weart
Center for History of Physics
American Institute of Physics
One Physics Ellipse
College Park, MD 20740 USA
chp@aip.org

Osiris: Call for Proposals

The *Osiris* Advisory Board will consider proposals for Volume 18, to appear in 2003, at the Society's annual meeting in November 1999. Volumes in progress, or to appear shortly, include: historical commemorations and memory; science and technology in East Asia; science and colonialism; and science and religion. Proposals for broad themes that integrate issues in the history of science into topics of "mainstream" history are especially encouraged, as are contributors from the historical discipline at large. Volume 17, to appear in 2002, will be on science and civil society and will be guest edited by Lynn Nyhart and Thomas Broman of the University of Wisconsin. Prospective guest editors should submit the following materials for consideration: (1) a proposal of approximately 2000 words describing topic and its relationship to the literature to date including, where appropriate, the literature in mainstream history; (2) a list of 10–12 contributors with the theme, topic, or title of contribution; and (3) publication c.v. of guest editor(s). Guest editors and their contributors should be prepared to conform to the *Osiris* publication schedule. Volume 18 (2003) will go to press—after refereeing, author's revisions, and copy editing—in the fall of 2002. Guest editors must therefore choose contributors who are able to submit their essays by the late fall of 2001. Proposals are reviewed by the *Osiris* Advisory Board at the Society's annual meeting. Announcement of the next volume of *Osiris* is made around the New Year. Proposals and all supporting materials should be sent by 1 **October 1999** to: Kathryn M. Olesko, *Osiris* Associate Editor, Department of History, Georgetown University, Washington, DC 20057-1035. Preliminary inquiries should be made to Kathy Olesko at: kolesko@gusun.georgetown.edu.

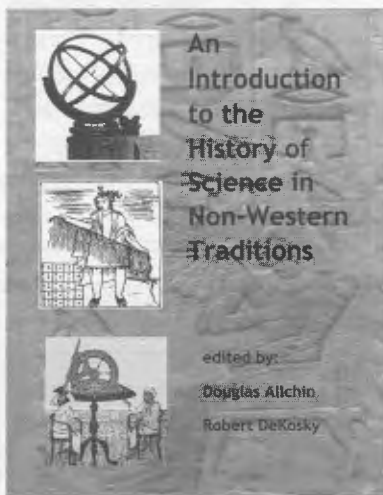
New HSS Dibner Postdoctoral Fellow

Amy C. Crumpton has been appointed the 1999–2000 History of Science Society Dibner Postdoctoral Fellow. Since March 1998, she has been a program associate and research archivist with the American Association for the Advancement of Science, responsible for the reorganization and maintenance of the association's archives. From September 1997 to February 1998, she was associate curator of a retrospective history exhibit for the AAAS 150th anniversary meeting. Prior to earning her PhD in science and technology studies from Virginia Tech, she was a project coordinator with the AAAS Scientific Freedom and Responsibility Program, from 1987 to 1992, and worked on issues concerning science and ethics as well as served as managing editor of the program's newsletter, *Professional Ethics Report*.

As a History of Science Society Dibner Postdoctoral Fellow, Dr. Crumpton will investigate AAAS's role in defining and redefining the concept of "science and society" that has influenced the association's educational and programmatic missions to advance science. Particularly, she will develop a brief critical history of the AAAS Committee on Science in the Promotion of Human Welfare, chaired by notable scientists such as Barry Commoner and Margaret Mead, and the committee's attempt during the 1960s to infuse the association with more socially active policy positions.

History of Science in Non-Western Traditions

Douglas Allchin, University of Texas, El Paso



In recent years all disciplines and all levels of education have recognized the increased significance of Non-Western perspectives. HSS has now published a brief volume that aims to introduce the pursuit of science in Non-Western traditions through a series of brief essays and reading lists, in the style of a richly annotated course syllabus. It is an outline and guide

to resources (not a text), in the spirit of Brush's *Guide to the Second Scientific Revolution*.

There are contributions on China, India, Latin America, Native America, Australia and the Pacific, and Japan. This small volume should prove useful to seasoned historians of science, as well as to graduate or undergraduate students in the history of science who want to expand their repertoire. In addition, it will serve ethnic/minority students who want to deepen their knowledge of science in a particular tradition and science teachers at all levels who want to engage students in the humanistic dimensions of science. Each chapter begins with an introduction that addresses the scope, noteworthy scientific achievements and major figures in each particular tradition. Listed, too, are major references that might serve as recommended first purchases for those who plan to pursue the topic in more depth. This list is coupled with a list of major sources for addressing current scholarship: significant journals, newsletters, Web sites, listservs, study centers, or professional organizations where someone can update the sources on the reading lists, review the latest research, or contact persons in the field.

Each chapter then presents a six-day "syllabus" with a brief synopsis for each day's theme or focus. Each day includes a list of student readings: approximately 1.5 hours of introductory material. There is also a listing of

recommended extended reading for the student or teacher interested in pursuing the topic in more depth. Where appropriate, audio-visual materials are mentioned, along with suggested topics for further research.

The volume is not exhaustive, but aims to supplement widely available resources. Hence, it highlights, for example, the astronomy of the early Chinese, the navigational techniques of Pacific Islanders and the ancient medical knowledge of sub-Saharan Africans. By contrast, it omits Arabic science (though clearly non-European), already integrated into most narratives of Western science. Similarly, the volume includes contemporary science in many other non-European regions, such as Latin America and Japan, even though science there may follow a "Western" model. In addition, the adoption or integration of Western science in cultures where it did not originally develop often poses striking issues about power, culture, and how each of these affects how science is done. The reader will find plenty of material to debate the very definitions of "Western," "non-Western," and "science."

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Increased Funding at NSF

Michael Sokal, NSF

Recent budgetary decisions at the National Science Foundation will increase the FY99 base budget of the Science & Technology Studies Program — which supports research and training in history, philosophy, and social studies of science and technology — by 7.47% over its FY98 base. (The modal increase experienced by other programs within the NSF Division of Social and Economic Sciences, in which the STS Program now finds itself, was under 2.0%.) Once all internal NSF budgetary adjustments have been made, the STS Program will make grants totaling more than \$3.4 million in this fiscal year.

The decision to raise the STS budget so significantly derived from several considerations. First, in recent years the Program experienced a major increase in the number of proposals submitted by STS researchers. Excluding dissertation and workshop proposals, supplement requests, and similar matters, these numbers rose from 80 in FY96 and 68 in FY97 to 107 in FY98. This increase led to a significant decline in the Program's "success rate," which went from 44% in FY96 and 53% in FY97 to 35% in FY98. Second, all involved in the review of these proposals agreed that the increased number

came at the "upper end of the quality distribution," so that the number of otherwise fundable proposals that the Program could not support rose sharply. This major budget increase is designed to begin, at least, to address this problem.

The Program's fiscal year includes two "review cycles," with annual "target dates" of 1 February and 1 August. It thus hopes to receive an even greater number of proposals later this summer. The formal STS Program Announcement is most readily available on the World Wide Web, at www.nsf.gov/sbe/sber/sts. This Web site provides direct links to NSF's "Grant Proposal Guide" and other resources for potential applicants.

Since 1973, the STS Program and its predecessors have been overseen successively by Ronald J. Overmann (1973–1995) and Edward J. Hackett (1995–1998). The current STS Program Officer (who will serve through August 2000) is Michael M. Sokal, who may be reached at msokal@nsf.gov and (703) 306-1742.

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For further information about this program, please contact the HSS Executive Office at 206-543-9366, or email: hssexec@u.washington.edu.

Thanks to those HSS members who have participated in the Sponsor-a-Scholar Program in 1999!

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New History of Physics Exhibits on the Internet

"Werner Heisenberg / Quantum Uncertainty," and "Andrei Sakharov: Soviet Physics, Nuclear Weapons and Human Rights," two new historical exhibits on the World-Wide Web, have been announced by the Center for History of Physics of the American Institute of Physics. The exhibits are designed to be useful for educational purposes to a wide spectrum of audiences including high-school and college students, teachers, scientists and historians. Besides many outstanding photographs and other illustrations, both exhibits include supplementary documentation and clips of the physicists' voices. They add to the Center's existing award-winning exhibits "Albert Einstein, Image and Impact" and "The Discovery of the Electron," and can all be accessed from the Center's homepage: <http://www.aip.org/history/>.

Heisenberg (1901–1976), one of the greatest physicists of the twentieth century, is best known as a founder of quantum mechanics and especially for the uncertainty principle in quantum theory. He also played a controversial role as a leader of Germany's nuclear fission research under the Nazi regime. After World War II he was active in elementary particle physics and West German science policy. All these topics are covered in the exhibit written by professor David Cassidy of Hofstra University, the author of the major biography *Uncertainty: The Life and Science of Werner Heisenberg* (1992).

Sakharov (1921–1989), the Soviet physicist who became, in the words of the Nobel Peace Committee, a "spokesman for the conscience of mankind," was fascinated by fundamental physics and cosmology. He came to be regarded as the father of the Soviet hydrogen bomb, contributing perhaps more than anyone else to the military might of the USSR. But gradually Sakharov became one of the regime's most courageous critics, a defender of human rights and democracy. He could not be silenced, and helped bring down one of history's most powerful dictatorships. The exhibit, which includes numerous photos provided by Sakharov's family, is authored by Dr. Gennady Gorelik, who is currently working on a scholarly biography of Sakharov.

Several historical exhibits are in the planning stage, including ones on Marie Curie, Max Planck and the quantum, and twentieth-century cosmology. The Center invites comments on the existing exhibits and encourages historians to consider cooperating and using our services for additional projects in their areas of expertise. (See the Web site for contact information.)

Spring Semester Folger Institute Seminar

Pamela O. Long will be directing a seminar at the Folger Shakespeare Library next spring entitled "Mechanical Arts, Natural Philosophy, and Visual Representation in Early Modern Europe." This seminar will examine the visual construction of the "natural" and the "real" through a study of such concepts as "illusionism," "symbolism," and "representation" in the fourteenth through seventeenth centuries. Ways in which visual images function in relation to texts will be explored in the works of Leonardo da Vinci, Vesalius, Galileo, Helvetius, Robert Boyle, and Robert Hooke, among others. Throughout, the central focus will be the cultural status of visual representation and the changing ways in which it is used to construct and legitimate knowledge about the world, but seminar participants are encouraged to find their own connections to this topic. Scholars with backgrounds in history, history of science and technology, literature, and art history are especially welcome to apply.

This seminar is scheduled to meet on Friday afternoons from 1–4:30 p.m., 28 January through 14 April, except 24 March 2000 and one other date TBA. For more detailed information about this and other Folger Institute seminars for the 1999–2000 academic year, and for a copy of the Folger application form, see <http://www.folger.edu/institute/nintro.cfm>.

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JOHN NEU, EDITOR

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Rachel A. Ankeny, Class of '43, Assistant Professor of Philosophy and Science at Connecticut College, has received a year-long fellowship at the Shelby Cullom Davis Center for Historical Studies at Princeton University. She will participate in their 1999–2000 seminar on "Conversion: Sacred and Profane" and pursue research on the project, "Conversion and the Historiography of Life Science: Practice, Theory, and Community with Laboratory Organisms" as part of her ongoing historical and philosophical work on the choice and use of the nematode *C. elegans* as a model organism.

Stephen G. Brush, Distinguished University Professor of the History of Science, University of Maryland, College Park has been awarded a Guggenheim Fellowship Award for his work on a comparative study of theory evaluation in different sciences.

Jill E. Cooper has been awarded a post-doctoral fellowship at the Institute for Health, Health Care Policy, and Aging Research in New Brunswick, New Jersey. Cooper joined the Institute staff in the fall of 1998 after successfully defending her dissertation, "Of Microbes and Men: A Scientific Biography of Rene Jules Dubos," at Rutgers University.

Menso Folkerts, Director of the Institut für Geschichte der Naturwissenschaften, University of Munich in 1998 was elected Corresponding Member of the Saechsische Akademie der Wissenschaften in Leipzig and in 1999 Ordinary Member of the Bayerische Akademie der Wissenschaften in Munich.

Matthew Klinge's "Plying Atomic Waters: Lauren Donaldson and the 'Fern Lake Concept' of Fisheries Management" won the 1997–1998 Alice Hamilton Award from the American Society for Environmental History. This biennial award is given to the best article in environmental history published outside of the society's journal, *Environmental History*. The article appeared in the Spring 1998 issue of the *Journal of the History of Biology* (v. 31, no. 1, pp. 1–32).

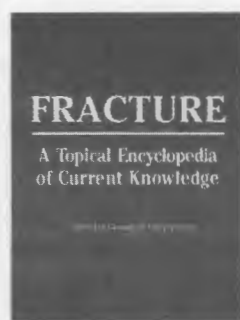
William Royall Newman, Professor of History and Philosophy of Science, Indiana University, Bloomington has been awarded a Guggenheim Fellowship Award for his work on Daniel Sennert and early modern matter theory.

Michael A. Osborne and **Anita Guerrini** have been jointly appointed to be the first participants in a new exchange program between the University of California, Santa Barbara and the Centre Nationale de Recherche Scientifique in France. They will be resident at the Center Alexandre Koyré in Paris during the 1999–2000 academic year.

Katharine Park, who is Samuel Zemurray, Jr., and Doris Zemurray Stone Radcliffe Professor of the History of Science and Women's Studies, Harvard University has been awarded a Guggenheim Fellowship for her work on the early history of human dissection.

Robert N. Proctor has received a Fulbright Scholar award for 1999/2000; he will spend the year at the Max Planck Institut für Wissenschaftsgeschichte in Berlin. His book, *The Nazi War on Cancer*

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(Princeton University Press, 1999), has also been awarded the Arthur Viselstear Prize for the History of Public Health, from the American Public Health Association.

Nicolas Rasmussen, in recognition of his book *Picture Control: The Electron Microscope and the Transformation of Biology in America, 1940–1960*, was awarded the Paul Bunge Prize of the Bans R. Jenemann Foundation. He received the prize, endowed with DM 10,000, on May 14, 1999 on occasion of the 98th General Meeting of the German Bunsen Society for Physical Chemistry (Deutsche Bunsen-Gesellschaft für Physikalische Chemie e. V., DBG) in Dortmund, Germany. The Bans R. Jenemann Foundation is administered by the German Chemical Society (Gesellschaft Deutscher Chemiker e. V., GDCh) and the DBG. The Paul Bunge Prize is the world's largest prize for research in the field of the history of scientific instruments.

Michael Riordan, Assistant to the Director, Stanford Linear Accelerator Center, California; Adjunct Professor of Physics, University of California, Santa Cruz has been awarded a Guggenheim Fellowship for his work on the rise and fall of the Superconducting Super Collider.

Londa Schiebinger's new book, "Has Feminism Changed Science?," has been published by Harvard University Press. She was awarded a Humboldt Forschungpreis to work at the Max-Planck-Institut für Wissenschaftsgeschichte on her new project, "Gender in the Voyages of Scientific Discovery."

Michele Thompson, Southern Connecticut State University, has been awarded a grant from the Connecticut State system to cover her research expenses in Vietnam this summer.

West Coast History of Science Society Meeting

Anita Guerrini, University of California, Santa Barbara

The West Coast History of Science Society met on the weekend of April 24–25 at the Cliff House, University of California, Santa Barbara. About 30 participants managed to tear their gaze away from the surfers and pelicans outside the window to focus on a variety of papers on topics ranging from the Enlightenment to the "X-files session" on Cold War paranoia. A workshop on publishing featured Richard Hecht, co-chair of the UC Press Publications Board. Plenary speaker Aharon Gibor, professor emeritus of biology at UCSB, delighted the audience with his witty and opinionated "Memoirs of the Birth of Molecular Biology." John Cloud of UCSB won the prize for best graduate student paper for his "The Oil Spill and the Spy Plane: An Episode in the Clandestine Origins of Earth Science."

The 2000 meeting will be held at UC-Davis. Incoming president of the WCHSS is Robert G. Frank, Jr. of UCLA. The WCHSS was preceded on April 23 by the 3rd joint UC-Stanford History of Science Workshop, which featured informal panels on "Colonial Milieux," and Daston and Park's *Wonders and the Order of Nature*. The afternoon was devoted to demonstration of web-based technologies in STS by Tim Lenoir and the team of Adrian Johns, Kevin Knox, and Alison Winter.

1999 Midwest Junto for the History of Science

Marjorie Malley



Bartlesville, Oklahoma was the site of the 1999 meeting of the Midwest Junto for the History of Science. On April 9–11 historians and philosophers from seven midwestern states, as well as from Newfoundland, Massachusetts, Colorado, and Texas gathered at the Hotel Phillips to share ideas, research, food, and friendship.

The meeting began on Friday evening with a tour of the Phillips Petroleum Company's corporate archives, followed by a party. On Saturday morning, the 1998–99 Junto president Dick Overfield opened the formal sessions, which included fifteen individual presentations on a diverse range of topics. Participants spent the lunch break at the Woolaroc Museum and Wildlife Preserve and at Frank Lloyd Wright's only skyscraper, the Price Tower (pictured above). After the afternoon papers, the meeting moved to a champagne reception at the historic Frank Phillips Home, followed by a banquet at the conference hotel.

Sunday morning's sessions concluded with a lively roundtable discussion led by 1999–2000 Junto president Eliseo Fernandez. This new feature will probably be continued next year. Other 1999–2000 Junto Council members are David Robinson, Amy Bix, Peter Barker, and Marilyn Ogilvie.

The weekend was graced by perfect spring weather, enhancing the relaxed and friendly atmosphere which is so characteristic of Junto meetings. The papers were well presented and well received. We look forward to next year's meeting in Kansas City.

Copies of the 1999 Junto program, abstracts, and/or papers can be obtained from Marjorie Malley, 1934 South Dewey Avenue, Bartlesville, OK 74003; phone 918-336-4537; e-mail mcmjmh@galstar.com.

John Von Neumann's brother and biographer, Nicholas A. Vonneuman, author and publisher of *John Von Neumann as seen by his brother*, professorial lecturer at universities in the USA, Brazil, and Hungary on "The Philosophical Legacy of John Von Neumann," would like to have re-edited and republished his book in fully implemented, polished, and illustrated form by a commercial or academic publisher, potentially with the assistance of a co-author. Interested parties please contact Mr. Vonneuman directly: Nicholas A. Vonneuman, 1396 Lindsay Lane, Meadowbrook, PA 19046-1833 USA, E-mail: NicholasAVon@webtv.net, Phone: (215) 886-6244, Fax: (215) 886-2899.

Introduction of Dr. Cristina Chimisso and of the new George and May Sarton Fellowship, May 12, 1999, American Academy of Arts and Sciences

Gerald Holton, Harvard University



The American Academy, during its more than two centuries of existence, has not been overly zealous—unlike other professional organizations—to distribute an abundance of different awards. We seem to have on our books just four types of these. But tonight, at a time when on the whole there is not all that much to be joyful

about, let us celebrate the inauguration by the Academy of a new and quite special award, the George and May Sarton Fellowship.

This has been made possible by the action of May Sarton, the widely beloved poet, author of about fifty books, and one of our own Fellows, who died four years ago. In a codicil to her Will, she set up The Sarton Fund, endowing it with her whole Estate. She also specified that the Academy, being equally devoted to the Arts and Sciences, administer the generous proceeds given to it by the Fund to assure the distinguished Fellowship in perpetuity. After a rigorous selection process, the Fellowship is given every few years to a young historian of science, starting now; and between those years, an equivalent award is made to a young poet.

May Sarton's desire to support historians of science of course reflected her intention to honor the memory of her father George, whom we all know also as the father of the whole field of history of science in its modern form.

With the name of two such stars on the new Fellowship, the organizing group which the Academy called together just a year ago knew it had the unique opportunity, nay duty, to make this award become the premier occasion for recognizing new stars and new future leaders of the respective fields.

After the announcement last year, the Academy received eighteen serious applications, with all the usual documentation. Yet, the Selection Committee, which included the historian of science Mary Jo Nye (also a past President of the History of Science Society) and Professor Rosemary Stevens of the University of Pennsylvania, found it had a relatively easy task. There were many strong candidates, but one clear and unanimous first choice—Dr. Cristina Chimisso.

I was told I must be very brief, so I have to forgo quoting all the enthusiastic commendations in her supporting letters and

from the results of reading her work so far. But I must mention at least a few facts about our honoree.

She began to show discriminating taste by being born in Perugia, Italy; in due course getting her PhD, three years ago, at the University of Cambridge, with a thesis on the philosophy of Gaston Bachelard and the intellectual milieu of France in the inter-war years—all while making ends meet by supervising students at Cambridge on Kant, Hegel, and Heidegger. Then she converted her thesis into a book, now in press, while a Fellow at the Max Planck Institute in Berlin. She is now associated with the London School of Economics Center for Philosophy of Science, working on her new book.

At this point we come upon an almost uncanny part of this brief account. Her new book is on the work of the French historian and philosopher of science, H el ene Metzger. If George Sarton was a father of the modern history of science, H el ene Metzger was a mother of that same field; and of course she knew the Sarton family well.

Born in 1889, she lived to publish eight books, starting with her 1918 PhD thesis on the origins of crystallography; she wrote also on Newton's chemistry, on the chemical doctrine in France from the 14th century to Lavoisier, a book that won the Binoux Prize of the Acad mie des Sciences. Yet, in recent decades her important contributions have somehow been rather neglected.

I have found only one photograph of Dr. Metzger. It shows her smiling, but there is a darkness in the picture which almost presages the tragedy to come. In February 1944, while in Lyon, she was arrested, and transported in Convoy #69, together with about 1500 women, men and children, to Auschwitz. There, almost all of them were immediately killed. We do not even know whether Metzger survived the long journey.

One of the places where H el ene Metzger's spirit still lives is in her large correspondence with George Sarton, which is kept at the Houghton Library at Harvard University, where Dr. Chimisso will spend much of the summer doing research. She will find there that one of the last letters written by Metzger to George Sarton, not long before her death, ends with a very special greeting to his daughter, May.

So it may come about that Dr. Chimisso's work under this award not only will give us a scholarly study on a long-neglected pioneer of the history of science, but also may throw new light on those towering figures who, together, are enshrined in the very name of the new Fellowship.



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**DIBNER
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2000-2001**

The Dibner Institute for the History of Science and Technology invites applications to its two fellowship programs for the academic year 2000-2001: the Senior Fellows program and the Postdoctoral Fellows program. There will be some twenty Fellows at the Institute each term.

The Dibner Institute is an international center for advanced research in the history of science and technology, established in 1992. It draws on the resources of the Burndy Library, a major collection of both primary and secondary material in the history of science and technology, and enjoys the participation in its programs of faculty members and students from the universities that make up the Dibner Institute's consortium: the Massachusetts Institute of Technology, the host institution; Boston University; Brandeis University; and Harvard University.

The Institute's primary mission is to support advanced research in the history of science and technology, across a wide variety of areas and a broad spectrum of topics and methodologies. The Institute favors projects that address events dating back thirty years or more; and, while recognizing that overlap between the history of medicine and the history of biology makes strict distinctions impossible, the Institute generally does not support projects in the history of clinical medicine.

Senior Fellows Program

Candidates for Senior Fellowships should have advanced degrees in disciplines relevant to their research and show evidence of substantial scholarly accomplishment and professional experience. Senior fellows may apply for a second fellowship appointment five years after their first successful application.

Scholars may apply to the Senior Fellows program for the Fall (Term 1), the Spring (Term 2) or both. Term 1 extends from August 1 through December 31, with full activities beginning on September 1; Term 2 extends from January 1

through May 31, with full activities beginning on February 1. At the time of application, Term 1 candidates may request an arrival date in August; Term 2 candidates may request an extension into June. The Institute prefers, if possible, that senior fellows apply for a two-term residency.

Postdoctoral Fellows Program

Fellowships are awarded to outstanding scholars of diverse countries of origin who have received the Ph.D. or equivalent within the previous five years. Postdoctoral Fellowships run for one year, from September 1 through August 31, and may be extended for a second and final year at the discretion of the Dibner Institute.

Terms and Conditions

All Dibner Fellows are expected to reside in the Cambridge/Boston area during the terms of their grants, to participate in the activities of the Dibner Institute community, and to present their current work once during their fellowship appointments.

Fellowships provide office space, support facilities and full privileges at the Burndy Library and at the libraries of consortium universities. Fellows will have access to the entire spectrum of activities that take place at the Dibner Institute, where they will be able to find the resources and appropriate settings to carry on their work.

Funds are available for housing, living expenses and one round-trip fare for international Fellows. Estimates of costs, as well as the average stipend awarded in 1999-2000, are provided with the application forms. The deadline for receipt of applications for 2000-2001 is December 31, 1999. Fellowship recipients will be announced in March, 2000. Please send requests for further information to:

Trudy Kontoff, Program Coordinator
Dibner Institute for the History of Science and Technology
MIT E56-100, 38 Memorial Drive
Cambridge, Massachusetts 02139

Telephone: 617. 253.6989 Facsimile: 617. 253.9858
E-mail: DIBNER@MIT.EDU

DIBNER INSTITUTE NAMES RESIDENT, VISITING and POSTDOCTORAL FELLOWS for 1999–2000

The Dibner Institute for the History of Science and Technology is pleased to announce the appointments of the Dibner Institute Fellows for 1999–2000. The Institute has appointed nineteen Senior and eleven Postdoctoral Fellows. They come from several nations and pursue many different aspects of the history of science and technology.

The following nineteen persons have been appointed as Dibner Institute Senior Fellows:

Davis Baird, Associate Professor in the Department of Philosophy, University of South Carolina, is the author of *Inductive Logic: Probability and Statistics* (1992) and the 1998 article, "Encapsulating Knowledge: The Direct Reading Spectrometer." At the Dibner Institute he plans to complete a manuscript, "Instrument Knowledge: A Philosophy of Scientific Instruments" and begin research on Baird Associates, a company that developed and manufactured scientific instruments, founded by his father in 1936.

Bernadette Bensaude-Vincent, Professor at Université Paris X, is the author of *Eloge du Mixte. Matériaux Nouveaux et Philosophie Ancienne* (1998) and *Lavoisier, Memoires d'une Revolution* (1993). In 1997 she received the Dexter Award for outstanding achievement in the history of chemistry. The project she will be working on at the Dibner Institute is titled "Nature and Artifact in Chemical Industries, 1900–2000."

Christine Blondel is Chargé de Recherche at the Centre National de la Recherche Scientifique (CNRS), France. She is the author of *Histoire de l'électricité* (1994) and, with A. C. Vauge, *Repertoire de l'histoire des sciences et des techniques en France* (1994). At the Dibner Institute she will be working on a project about the history of electricity in France from the 1770s–1914 titled "French Amateurs in Electricity at the End of the Eighteenth Century."

David Bloor, Professor at the University of Edinburgh, Scotland, and Director of its Science Studies Unit, is the author of *Wittgenstein, Rules and Institutions* (1997) and *Knowledge and Social Imagery* (1991). During his visit at the Dibner Institute he plans to test Sir Frederic Bartlett's 1932 case study, "Remembering", in which Bartlett claims that different national groups produce culturally and nationally specific forms of technological devices. He will concentrate on sound-locator equipment as developed by the Germans, the British, the French, and the Americans.

William Brock, Emeritus Professor of History of Science, the University of Leicester, UK, is the author of *Justus von Liebig. The Chemical Gatekeeper* (1997) and *The Fontana History of Chemistry* (London 1992), issued as *The Norton History of Chemistry* (New York 1993). At the Dibner Institute he will continue his research for a book with the working title, "Sir William Crookes (1832–1919) and the Business of Science."

Kenneth Caneva, Professor of History at the University of North Carolina at Greensboro, is the author of the volume, *Robert Mayer and the Conservation of Energy* (1993) and the 1998 article, "Colding, Ørsted, and the Meanings of Force." Professor Caneva's project while at the Dibner Institute is tentatively titled "The Reconstruction of Scientific Knowledge: From Personal Conviction to Collective Acceptance."

Claudine Cohen is Associate Professor at Ecole des Hautes Etudes en Sciences Sociales, Paris. Her dissertation, "La Genèse de Telliamed: Théorie de la Terre et Histoire naturelle à l'aube des Lumières," is being published in 1999. She is also the author of *Le Destin du Mammouth* (1994). Her research project at the Dibner Institute will explore the interactions between French and American paleontological sciences from 1830–1950.

Jack Copeland, Professor at the University of Canterbury, Christchurch, New Zealand, is the author of *Artificial Intelligence* (1993) and the forthcoming volume, "Turing's Machines." For his work at the Dibner Institute he plans to continue a work-in-progress, titled "Synopsis of 'Turing's Machines,' A Work in the History and Philosophy of Computation."

Mordechai Feingold, Professor of Science Studies at Virginia Polytechnic Institute, is the author of "The Oxford Curriculum in Seventeenth-Century Oxford," pp. 211–503 of volume four of *The History of the University of Oxford* (1997) and *The Mathematicians' Apprenticeship: Science, Universities and Society in England, 1560–1640* (1984). At the Dibner Institute he will continue work on his book, "Cast a Giant Shadow: A History of the Royal Society, 1660–1850, Vol. I: A House Divided, A House Besieged 1660–1727."

Yves Gingras, Professeur Titulaire in the Department of History, University of Québec at Montréal, is the author with Peter Keating and Camille Limoges, of *Du scribe au savant. Les porteurs du savoir de l'Antiquité à la Revolution industrielle* (1998) and *Pour l'avancement des sciences. Histoire de l'ACFAS 1923–1993*. (1994). At the Dibner Institute he will continue research for his project on the relationship between the mathematization of physics and the transformation of the notion of substance.

Ruth Glasner is a Senior Lecturer at Hebrew University, Jerusalem. She is the author of the book, *A Fourteenth-Century Scientific-Philosophical Controversy: Jedaiah ha-Penini's 'Treatise on Opposite Motions' and 'Book of Confutation'* (1998), as well as the article, "Gersonides' Lost Commentary on the Metaphysics." Her project at the Dibner Institute is titled "The Hebrew Supercommentaries on Aristotle's Physics."

Helen Lang is Professor and Chair of the Philosophy Department, Trinity College, Hartford, CT. She is the author of *The Order of Nature in Aristotle's Physics: Place and the Elements* (1998) and *Aristotle's Physics and its Medieval Varieties* (1992). She will be doing research at the Dibner Institute for a project titled "Place and Extension: The Problems and Language of Ancient Physics."

Wenlin Li is Research Professor at the Institute of Mathematics, Academia Sinica, Beijing, China. He is the author of *Highlights of Classics of Mathematics (a source book in Mathematics)* (1998) and, with Li Xixian, et al. *On Science as System* (1995), and the article, "Göttingen's Influence on the Development of Mathematics in East Asia." At the Dibner Institute he will continue his investigations into mathematical exchanges between China and western countries by exploring the transmission of mathematical knowledge between the United States and China.

Nancy Nersessian, Professor, Program in Cognitive Science at Georgia Institute of Technology, is author of the book in press, "Creating Science: A Cognitive-historical Approach to Conceptual Change" and *Faraday to Einstein: Constructing Meaning in Scientific Theories* (1984, reprint 1990).

At the Dibner Institute she will continue to work on her NSF-sponsored research project, "Culture in Cognition: Toward a Integrative Analysis of Representation in Science."

William Newman, Professor at Indiana University, is the author of *Gebennical Fire: The Lives of George Starkey, An American Alchemist in the Scientific Revolution* (1994) and *The Summa Perfectionis of Pseudo-Geber. A Critical Edition, Translation and Study* (1991). During the fall term he will continue his collaboration with Lawrence Principe, working on the laboratory notebooks of George Starkey and Robert Boyle. Professor Newman will also undertake a reconsideration of early modern matter-theory, exploring the relationship between the re-emergence of atomism in early modern science and medieval Aristotelian theories of matter.

Lawrence Principe, Associate Professor, Johns Hopkins University, is the author of *The Aspiring Adept: Robert Boyle and His Alchemical Quest* (1998) and the forthcoming article, "The Alchemies of Robert Boyle and Isaac Newton: Alternate Approaches and Divergent Deployments" in the volume, *In Canonical Imperatives: Rethinking the Scientific Revolution*, edited by Margaret Osler. At the Dibner Institute he will continue his collaboration with William Newman exploring the importance of experiment in seventeenth-century alchemy and the influence of George Starkey on Robert Boyle.

Gregor Schiemann is Assistant Professor at Humboldt Universität, Institut für Philosophie, Berlin. He is the author of *Wahrheitsgewissheitsverlust. Hermann von Helmholtz' Mechanismus im Anbruch der Moderne. Eine Studie zum Übergang von klassischer zu moderner Naturphilosophie* (1997) and the editor, with Michael Hauskeller and Christoph Rehmann-Sutter, of *Naturerkenntnis und Natursein* (1997). The title of his research project while at the Dibner Institute is "Aristotle and Descartes' Concept of Nature and the Transformation of Psychology in the 16th and 17th Centuries."

Ana Simões is Assistant Professor in the Department of Physics, University of Lisbon, Portugal. She is the author, with Ana Carneiro and Maria Paula Diogo, of "Constructing Knowledge, Eighteenth-Century Portugal and the New Sciences" and, with Kostas Gavroglu, of "Different Legacies and Common Aims: Robert Mulliken, Linus Pauling and the Origins of Quantum Chemistry." At the Dibner Institute she will be working on two projects. The first is the completion of a history of quantum chemistry, written with Kostas Gavroglu, tracing the development of the field of quantum chemistry from the 1920s–early 1950s and the communities of quantum chemists in the United States, Germany, and the United Kingdom. The second project is a biography of José Correia da Serra (1750–1823), a Portuguese man of letters, diplomat, Freemason, and botanist.

John Stillwell, Associate Professor of Mathematics, Monash University, Victoria, Australia, is the author of *Numbers and Geometry* (1998) and *Elements of Algebra: Geometry, Numbers, Equations* (1994). At the Dibner Institute he plans to write a book on "Exceptional Objects" and their role in the history of mathematics.

The Dibner Institute has made the following eight Postdoctoral Fellowship appointments:

Luca Ciancio received his Ph.D. at the University of Florence. He is the editor of *A Calendar of the Correspondence of John Strange F.R.S. (1732–1799)* (1998) and the author of *Autopsie della Terra. Illuminismo e geologia*

in Alberto Fortis (1741–1803) (1997). His project at the Dibner Institute is titled "Interpreting the Temple of Serapis. A Case-study in the Relationship between Geology and Antiquarianism (1750–1830)."

Slava Gerovitch, received his Ph.D. from MIT's Program in Science, Technology and Society Program. He has translated Loren Graham's book, *Science in Russia and the Soviet Union*, into Russian. He contributed "Striving for 'Optimal Control': Soviet Cybernetics as a 'Science of Government'" to *Cultures of Control in the Machine Age*, in press. At the Dibner Institute he will complete a book on the history of Soviet cybernetics, based on his dissertation.

Michael Gorman completed the work for his Ph.D. at the European University Institute, Florence, Italy. He has written several articles, now in press, including "Mathematics and Modesty in the Society of Jesus: The Problems of Christoph Grienberger," to appear in *Archimedes* and "From the 'Eyes of All' to Usefull Quarries in Philosophy and Good Literature': Consuming Jesuit Science 1600–1665," to appear in the book, *The Jesuits: Culture, Learning and Arts*. For his research proposal at the Dibner Institute he plans to conduct a reappraisal of the origins of Jesuit science practice against the background of the 'science policy' of the Jesuit order.

Christophe Lecuyer, a recipient of the Ph.D. from Stanford University, is the author of the articles "University-Industry Relations during the Progressive Era: The Case of MIT" and "Instrument Makers and Discipline Builders: The Case of NMR." The title of his research project at the Dibner Institute is "From the Lab to the Fab: Physics Research, Manufacturing Practice, and Ion Implantation at High Voltage Engineering Corporation and Fairchild Semiconductor, 1962–1978."

Massimo Mazzotti, is a Ph.D. candidate at the University of Edinburgh, Scotland. He is the author of the following forthcoming articles: "The Geometers of God. Mathematics and Reaction in the Kingdom of Naples" and "L'immagine della scienza nel 'Bullettino' di Baldassarre Boncompagni (1868–1887)." His research project at the Dibner Institute is titled "Conservative Thought and Scientific Knowledge: A Socio-Historical Perspective."

Jutta Schickore, a Postdoctoral Fellow at the Max-Planck Institut, Berlin, is the author of the articles, "Sehen, Sichtbarkeit und empirische Forschung" and "Theoriebeladenheit der Beobachtung: Neubesichtigung eines alten Problems." She will work at the Dibner Institute on a project titled "Constructive Constraints: Exploring Errors and Pitfalls in Microscopy."

Brett Steele, Lecturer in the Department of History at UCLA, is the author of the articles, "Symmetry and Symbiosis: The Science of Mechanics and the Art of War" and "Rational Mechanics as Military Technology: Leonard Euler and Interior Ballistics." His work at the Dibner Institute will use recent archival research to develop further his dissertation, "The Ballistics Revolution: Military and Scientific Change from Robins to Napoleon."

R. Andre Wakefield, currently an exchange scholar at Harvard University, is the author of the forthcoming article, "Das Vermächtnis einer Verbindung: Freiberg und die Bergbauwissenschaften in den Beständen der Göttingen Universitätsbibliothek" and "Police Chemistry," based on a paper presented at the 1998 Annual History of Science Society Meeting. He plans to work on a project titled "An Early Modern Chemistry of the Mines, 1710–1800" while at the Dibner Institute.

The Dibner Institute has reappointed the following persons to a second year as Postdoctoral Fellows:

Arne Hessenbruch is the editor of the forthcoming "Reader's Guide to the History of Science," and author of "The Spread of Precision Measurement in Scandinavia 1660–1800." At the Dibner Institute, his project is a book titled "Scientific Quantification and Money."

Klaus Staubermann completed his dissertation, "Controlling Vision—The Photometry of K.F. Zoellner" at Cambridge University, UK. For his work at the Dibner Institute, he will analyze the scientific practice of three leading astrophotometrists, G. Müller at Potsdam, E. Pickering at Harvard, and C. Pritchard at Oxford.

Benno van Dalen was an Alexander von Humboldt Foundation Fellow at the Institut für Geschichte der Naturwissenschaften, Frankfurt. He is the author of "A Statistical Method for Recovering Unknown Parameters from Medieval Astronomical Tables" and "On Ptolemy's Table for the Equation of Time." At the Dibner Institute, he has started work on a manuscript tentatively titled "The Activities of Muslim Astronomers in China During the Mongolian Yuan Dynasty (1260–1368)."

DIBNER INSTITUTE NAMES SEVEN GRADUATE STUDENT FELLOWS FOR 1999–2000

The Dibner Institute for the History of Science and Technology is pleased to announce that fellowship awards have been made to eleven Ph.D. candidates enrolled in programs at three Dibner Institute consortium-member institutions: the Dibner Institute's host institution, the Massachusetts Institute of Technology; Boston University; and Harvard University. The Dibner Graduate Fellowship program is open to students writing their doctoral dissertations. Selection is based on excellence and scholarly promise, without regard for need.

Babak Ashrafi, MIT, received an S.B. in Physics and Mathematics from MIT and a Ph.D. in Physics from the State University of New York at Stony Brook. He is studying the efforts in the 1930s and 1940s to write a relativistic version of quantum mechanics for his thesis, "From Relativistic Electrons to Quantum Fields."

David Kaiser, Harvard University, has been working in a "double" Ph.D. program. In 1997 he defended his dissertation, "Post-Inflation Reheating in an Expanding Universe," for the Department of Physics, and he is preparing a second dissertation for the Department of the History of Science. This work is titled "Making Theory: Training American Theoretical Physicists in an Age of Big Science, 1948–1969." He graduated summa cum laude from Dartmouth College with a major in Physics.

Matthew Jones, Harvard University, received an M. Phil. from Cambridge University and an A.B. magna cum laude from Harvard College with majors in History and Science. His dissertation is titled "The Aesthetics of Inference: The Mathematics of Descartes and Leibniz and the Dream of Systematic Public Knowledge in the Seventeenth Century."

Robert Martello, MIT, received a B.S. from MIT with a major in Earth, Atmospheric, and Planetary Science and an M.S. in Civil and Environmental Engineering. His dissertation, "Paul Revere's Last Ride: The Road to

Rolling Copper," is a study of Paul Revere's lifelong technological education and his development, at the age of 65, of America's first copper rolling mill.

Benjamin Pinney, MIT, has received an M.A. in Architecture from Princeton University and the B.A. magna cum laude in Political Economy from Williams College. His dissertation is titled "Organizing Engineering Labor: A History of Project Management to 1970."

Gerald A. Ward, Boston University, received a B.A. and an ALM, summa cum laude in History of Science, Harvard Extension School. His dissertation is titled "From Merchant Adventurers to Merchants of Light: The Development of English Oceanic Commerce and New World Colonies and the Making of Bacon's Great Instauration."

Timothy Wolters, MIT, received an M.A. at the University of Maryland, and the B.A. magna cum laude in History/Computer Applications at the University of Notre Dame. The working title of his dissertation is "Carrier Aviation Policy and Procurement in the US Navy, 1936–1955."

Jobs

We invite you to peruse our electronic site for listings of history of science-related job opportunities, fellowships and grants, and prizes. The following announcements have been edited for space. For a full description consult the HSS Web site at <http://depts.washington.edu/hsexec>. Notices are brought to the History of Science Society's attention between quarterly publication of the HSS Newsletter and some items are drawn (and often condensed) from a variety of sources. 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.

For those who wish to publish a job, fellowship/grant, or prize, please send an electronic version of the posting via e-mail. Our mailing address is History of Science Society Executive Office, Box 351330, University of Washington, Seattle, WA 98195-1330. Our e-mail address is hsexec@u.washington.edu. Our fax is (206) 685-9544 and our telephone number is (206) 543-9366.

University of Wisconsin-Madison, Department of the History of Science, anticipates openings for one or more tenure-track assistant professorships, contingent upon funding. Areas of specialization: (1) History of the physical sciences since 1800, duties to begin in August 2000; (2) History of early modern science to 1750, duties to begin in January 2001 or August 2001. We seek candidates eager to participate in an active graduate program, a small but strong undergraduate major, and interdisciplinary general education courses that help fulfill the University's liberal education requirements. Possibilities also exist for involvement in a proposed science-studies program. We will be looking for evidence of outstanding promise in both teaching and research. Send letter of application describing teaching and research interests, curriculum vitae, a writing sample, and three or four letters of recommendation as follows: for position (1) to Professor David Lindberg, Department of the History of Science, University of Wisconsin, 7143 Social Science Building, 1180 Observatory Drive, Madison, WI 53706-1393; for position (2) to Professor Thomas Broman at the same address. Inquiries may be addressed to Lindberg at dclindbe@facstaff.wisc.edu; or to Broman at thbroman@facstaff.wisc.edu. Deadline for application: 4 October 1999.

Review of applications will begin 4 October, to identify candidates to be interviewed at the History of Science meeting in Pittsburgh, 4–7 November. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. UW-Madison is an AA/EOE.

The University of Minnesota, Twin Cities campus, invites applications for an Assistant Professor or Associate Professor position beginning September 2000, with specialty in the history of modern physics. Principal duties involve research and teaching, including the introductory survey in the history of science. Candidates should be able to teach and supervise research in both 19th- and 20th-century physics, to interact well with both scientists and historians, and must have completed all requirements for the Ph.D. by August 1, 2000. Applications must be received by October 15, 1999. Applicants should submit a vitae, publications or samples of writing, and arrange for at least three letters of recommendation to be sent to: Chair, Search Committee, Program in History of Science and Technology, 148 Physics Building, University of Minnesota, 116 Church Street S.E., Minneapolis, Minnesota 55455. The University of Minnesota is an equal opportunity educator and employer.

Fellowships

The American Council of Learned Societies announces the availability of a small number of new Frederick Burkhardt Residential Fellowships for Recently Tenured Scholars engaged in long-term, unusually ambitious projects in the humanities and related social sciences. The ACLS will award approximately 9 Burkhardt Fellowships per year in this and the next two years to recently tenured humanists at institutions in the US and Canada; each fellowship carries a stipend of \$65,000. (These new Fellowships are in addition to the 60 offered through the central ACLS Fellowship Program.)

Burkhardt Fellowships are intended to support an academic year (normally nine months) of residence at any one of nine national residential research centers. This year's successful applicants may take up the fellowship in 2000–2001 or in either of the succeeding two academic years.

Proposals should show evidence of significant preliminary work already completed, and a plan of work, typically in the five-year range, to be carried out. Assurance will be required from the administrative leadership of the scholar's home institution (Dean, Provost, or President) that the applicant is an especially promising member of its humanities faculty, and that the institution is prepared to make its own contributions—beyond providing normal fringe benefits during the fellowship year—to assist the scholar in bringing the project to completion.

The overall structure of support would thus include: An academic year's leave funded by ACLS under the new Burkhardt Fellowship program, with a stipend of \$65,000 and residence at a major interdisciplinary center for advanced study, or national research library, with distinguished records of fostering significant scholarly accomplishment. To accommodate Fellows' personal schedules, the participating residential centers and libraries have agreed to permit successful applicants to specify one of the succeeding three years for residency and to hold a place for them; applicants will be required to adhere to that schedule. (If the \$65,000 stipend exceeds the Fellow's normal academic year salary, the excess will be available for research and travel expenses.) Applicants to the current competition must normally

have begun their tenured contracts on or after October 1, 1995; and a summer's support (usually estimated at 2/9 salary) and/or equivalent reduction of teaching and administrative duties at some point in the post-Fellowship stage, funded by the home institution. You may request application forms for Burkhardt fellowships by any one of the following means: Mail: Office of Fellowships and Grants, ACLS, 228 East 45th Street, New York, NY 10017-3398; Fax: (212) 949-8058

E-mail: grants@acsls.org; Web site: <http://www.acsls.org/ex-burk.htm>.

In the administration and awarding of its fellowships and grants, the ACLS does not discriminate on the basis of age, gender, race or ethnicity, physical disability, marital status, sexual orientation, religion, or political affiliation. Applications are particularly invited from women and members of minority groups. Membership in a constituent society of the ACLS is not a requirement.

Institute for Advanced Study, announces Visiting Member awards for 2000–2001 in the School of Social Science. The School of Social Science each year invites as Members some fifteen to eighteen visiting scholars who constitute a genuinely interdisciplinary and international group. A completed doctorate or equivalent is required by the application deadline, and memberships are awarded at the junior and senior levels. Visiting Members are expected to pursue only their own research, but the School organizes a weekly seminar at which Members as well as invited guests present their on-going work. Although the School is not wedded to any particular approach, it encourages social science with an historical and humanistic bent and entertains applications in history, philosophy, literary criticism, literature, and language, as well as in the traditional fields of social science.

The following focus is neither an exclusive nor excluding theme and will serve only as a limited part of the program. Scholars whose work is relevant to any aspect of the human sciences are urged to apply. In recent decades new technologies of information, communication, reproduction, and representation have been developed and introduced at an ever-increasing pace. New languages and visual practices have emerged for communicating with and among machines, as well as people, spawning, amongst other things, new techniques of control, forms of violence, warfare and entertainment, problems of regulation, and possibilities of resistance. The Internet has burgeoned at an unprecedented pace as a zone of economic activity, political action, and cultural transaction. There have been enormous claims, as well as great skepticism, about the revolutionary impact of these technologies. During 2000–01 we will be exploring the following sorts of questions: How far-reaching are the changes associated with new technologies? What challenges do they pose to established modes of thinking and acting? Are metaphors drawn from the worlds of computers and the logics of networks gaining explanatory weight in the social sciences and becoming models guiding practice? Generally: What is at stake for human societies in the changes associated with new technologies? And what is at stake for social science? We are especially interested in research that focuses on specific instances of technological change and its impact.

Fellowship support is provided by funds from private donors and foundations, the National Endowment for the Humanities, and the Institute for Advanced Study. Distribution of the grants among successful applicants is made by the School of Social Science. Applications from scholars with relevant concerns who have support of their own, in whatever form, are equally welcome. For information and application materials, write to the Administrative Officer, School of Social Science,

Institute for Advanced Study, Princeton, NJ 08540; send e-mail to ssapps@ias.edu or download applications in PDF format at <http://www2.admin.ias.edu/ss/home/applications.html>. Completed applications must be received by 15 November 1999.

National Humanities Center, Fellowships in the Humanities. Up to forty fellowships are available for advanced study at the National Humanities Center. In addition to unrestricted fellowships in all fields of the humanities, the Center will offer: (1) three or four fellowships specifically for the study of religion by humanistic scholars, and (2) one fellowship for the history of modern medicine or biomedical science. The Center also invites applications from scholars whose research focuses on important literary works to form a Fellows' seminar on issues of interpretation. Scholars from all fields of the humanities and humanistically inclined individuals from the arts, the natural and social sciences, and the professions may apply. Scholars from all nations may apply. All should hold a doctorate or equivalent credentials and have record of scholarly publication. Tenure of fellowship is September 2000 through May 2001. Stipends are individually determined, depending on the needs of the Fellows and the Center's ability to meet them. The average stipend is \$35,000. Round-trip travel for Fellows and their immediate families is also provided. The Center's funding derives from private foundation grants, income from the Center's endowment, and the National Endowment for the Humanities. Application deadline for 2000–2001 fellowships is October 15, 1999. For an application, write to Fellowship Program, National Humanities Center, P.O. Box 12256, Research Triangle Park, NC 27709-2256. <http://www.nhc.rtp.nc.us:8080>.

Smithsonian Institution Libraries Resident Scholar program is accepting applications for 2000. The SIL Resident Scholar Programs offer short-term study grants with stipends of \$1,800/month for durations of one to three months. Three awards are in the SIL Dibner Library Resident Scholar Program sponsored by The Dibner Fund for research in the Dibner Library of the History of Science and Technology. A fourth is in the SIL Resident Scholar Program for research in the Department of Special Collections. Historians, librarians, doctoral students and other scholars are invited to apply. Scholars are expected to be in residence at the Smithsonian Institution. The Dibner Library collections, with books and manuscripts from the 15th to the 20th centuries, specialize in the physical and applied sciences and technologies. Strengths include electronics, civil and mechanical engineering, chemical industries, textiles and ceramics, military history, instrumentation, and also microscopy, pharmacy, and modern physics. In addition to those collections in the Dibner Library, the SIL Special Collections Department has extensive materials on World's Fairs and Expositions, 1851–1950, and air and space (ballooning, rocketry, and aviation). The Libraries' collection of 285,000 manufacturers commercial trade catalogs, which document progress in American agriculture, industry, and manufacture, contain much primary source material for the history of technology, economic, labor and women's history, and consumer and social history. Deadline for applications: December 1, 1999. Application materials will be available after June 15, 1999, at <http://www.sil.si.edu/Information-Files/dibner-fellowship.htm>, or write to Smithsonian Institution Libraries Resident Scholar Programs, Smithsonian Institution Libraries, NHB 24mz, MRC154, Washington, D.C. 20560-0154. Tel: (202) 357-2240, or send e-mail to libmail@sil.si.edu.

University of Pennsylvania Mellon Postdoctoral Fellowships in the Humanities 2000–2001. Five Mellon Postdoctoral Fellowships are available for untenured scholars whose Ph.D.s were awarded between 12/1991 and 12/1999. Research proposals are invited in all areas of humanistic study except educational curriculum-building and the performing arts, and should relate to the Penn Humanities Forum's topic for the year: STYLE. Preference will be given to candidates whose proposals are interdisciplinary, who have not previously used the resources of the University of Pennsylvania, and who would particularly benefit from and contribute to its intellectual life. The Fellowship carries an annual stipend of \$32,000. Completed applications and supporting materials must reach the Forum by OCTOBER 15, 1999. For further information and applications, visit the Forum online at <http://www.english.upenn.edu/~human> or write to Wendy Steiner, Director, Penn Humanities Forum, 116 Bennett Hall, University of Pennsylvania, Philadelphia, PA 19104.

Prizes

AIP Center for History of 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 (such as astronomy, geophysics, and optics) and their social interactions. Grants can be up to \$2500 each. They can be used only to reimburse direct expenses connected with the work. Preference will be given to those who need funds for travel and subsistence to use the resources of the Center's Niels Bohr Library (near Washington, DC), or to microfilm papers or to tape-record oral history interviews with a copy deposited in the Library. Applicants should name the persons they would interview or papers they would microfilm, or the collections at the Library they need to see; you can consult the online catalog at our Web site, <http://www.aip.org/history>, and please feel free to make inquiries about the Library's holdings. Applicants should either be working toward a graduate degree in the history of science (in which case they should include a letter of reference from their thesis adviser), or show a record of publication in the field. To apply, send a vitae, a letter of no more than two pages describing your research project, and a brief budget showing the expenses for which support is requested to: Spencer Weart, Center for History of Physics, American Institute of Physics, One Physics Ellipse, College Park, MD 20740; phone: 301-209-3174, Fax: 301-209-0882 e-mail: sweart@aip.org. Deadlines for receipt of applications are June 30 and December 31 of each year.

The Millennium Award. The American Philosophical Society announces its first annual Millennium Award to be awarded November, 2000 for the best monograph accepted by the Society for publication in its Transactions series. The award amount is \$5,000. Authors must have a doctorate. Subjects include all areas of history (history of science and medicine included), archaeology, anthropology, linguistics, ethnohistory, classics, paleontology. Deadline is December 1, 1999. Manuscripts should be no more than 250 pages, double-spaced and printed on one side and should be accompanied by a curriculum vitae and abstract. All manuscripts are subject to review by the Committee on Publications, Alexander G. Bearn, Chairman. Inquiries should be sent by e-mail to: [Carole LeFavre-Rochester, Editor, CaroleAPS@aol.com](mailto:CaroleLeFavre-Rochester@aol.com). Send manuscripts to: Carole LeFavre-Rochester, Editor, American Philosophical Society, 104 South Fifth Street, Philadelphia, PA 19106.

Jack D. Pressman-Burroughs Wellcome Fund Career Development Award in 20th Century History of Medicine or Science. The award is for outstanding work in twentieth-century history of medicine or medical sciences as demonstrated by the completion of a Ph.D. and a proposal to turn the dissertation into a publishable monograph. The Ph.D. must have been completed and the degree granted within the last three years (1996–1999). The application must include a one-page summary of the proposed book; an account (not exceeding two pages) of the work required to make the dissertation publishable, and why; information on interest in publishing it from a specific press, together with any relevant letters from the press; a current c.v.; a letter of support from the candidate's dissertation advisor, and one additional letter of support. These materials should be submitted by October 15, 1999, to the Chair of the Pressman-Burroughs Wellcome Committee, Prof. Gerald N. Grob, Institute for Health, Health Care Policy and Aging Research, Rutgers University, P.O. Box 5070, 30 College Avenue, New Brunswick, NJ 08903-5070. A decision will be announced by April 1, 2000. The stipend will be \$2,500. In keeping with the policy of the Burroughs Wellcome Fund, indirect charges or fringe benefits may not be charged against the award.

The Jerry Stannard Memorial Award. The Department of History, at the University of Kansas, announces the 2000 competition for the annual award in honor of the late Professor Jerry Stannard. The purpose of the award is to encourage research by young scholars in the fields that Professor Stannard made his own: namely, the history of materia medica, medicinal botany, pharmacy, and folklore of drug therapy before the 1700s. Each year a cash award will be made to the author of an outstanding published or unpublished scholarly study in those fields. In 2000 the award will be \$600. The competition is open to graduate students and to recent recipients of a doctoral degree (the Ph.D. degree or an equivalent), conferred not more than three years before the competition deadline. Manuscripts must be in English, French, or German. Only one paper by any author may be submitted in any given year. Each entry should be typewritten, double-spaced, and no longer than 50 pages, including notes, bibliography, and appendices. Entrants should keep copies of their manuscripts, since manuscripts submitted will not be returned. Each manuscript must be accompanied by the following: (a) a one-page abstract of the paper in English; (b) a current curriculum vitae of the author; and (c) a letter of recommendation from an established scholar in the field. Entrants who are resident in the United States of America are also requested to indicate their home address and social security number. Entries must be received no later than February 2000. The award will be announced on or about 15 May 2000. All manuscripts and correspondence should be addressed to: The Stannard Award Committee, Department of History, Wescoe Hall 3001, The University of Kansas, Lawrence, KS 66045-2130.

The Marc-Auguste Pictet Prize, will reward an outstanding work, unpublished or recently published in the field of the history of science. The prize is issued by the "Société de Physique et d'Histoire Naturelle de Genève" (SPHN) and, in principle is intended for a young researcher. The value of the Prize depends on the income of the Fund and may be shared: in 1998 it amounted to Sfr. 14,000. Application is open to both Swiss and foreign candidates at the university level. Notification of candidature should be sent by 31st December 1999 to the following address: Président de la SPHN, Museum d'Histoire naturelle, Case postale 6434, CH-1211 GENEVE 6, Switzerland. Two full copies of the work, accompanied by a summary and a curriculum vitae should be submitted before the deadline. One copy of the prize-winning work will remain the property of the SPHN.

The texts may be written in French, German, Italian or English. In the last three instances, the summary should be translated into French and be approximately 12 pages in length, i.e. 4,000 words or about 20,000 characters. Theme for the 2000 Prize: "History of electricity and electromagnetism in the XVIIIth and XIXth centuries."

The Society for the History of Alchemy and Chemistry. The Society invites entries for the Partington Prize, awarded to an original and unpublished essay on any aspect of the history of alchemy or chemistry. The competition is open to anyone who has not reached 35 years of age by the closing date, 31 December 1999. For further details, please contact John Hudson, Hon. Secretary, Society for the History of Alchemy and Chemistry, J.A.Hudson@anglia.ac.uk.

Society for the Social History of Medicine Prize Essay Competition 1999. The Society for the Social History of Medicine (SSHM) invites submissions for its 1999 prize essay competition. This prize is awarded to the best original, unpublished essay in the social history of medicine as judged by the SSHM's assessment panel. The winner will be awarded 200 pounds, and his or her entry may also be published in the journal, *Social History of Medicine*. The competition is open to students and recently qualified postdoctoral scholars. The deadline for submissions is 31 December 1999. Further details and an entry form can be obtained from the membership secretary, David Cantor, Department of History and Economic History, Manchester Metropolitan University, Geoffrey Manton Building, Rosamond Street West, Manchester M15 6LL, England. (d.cantor@mmu.ac.uk or dcantor@fs4.ma.man.ac.uk) SSHM Web site: <http://www.nottingham.ac.uk/~ahzwww/homesshm.htm>.

Future Meetings

We invite you to peruse our Web site for listings of history-of-science-related meeting announcements and calls for papers. The following announcements have been edited for space. For a full description consult the HSS Web site at <http://depts.washington.edu/hsexec>. Electronic listings of meetings are updated every Friday morning and are brought to the History of Science Society's attention between quarterly publication of the HSS Newsletter. For those who wish to publish a future meeting announcement or call for papers please send an electronic version of the posting to us via e-mail at hsexec@u.washington.edu. The Society does not assume responsibility for the accuracy of any items, and interested persons should verify all details, especially deadlines, with the appropriate contact person.

Mid-Atlantic Conference in the History of Science, Medicine, and Technology

A conference by and for graduate students interested in the history of science, broadly understood

6–8 August 1999, University of Pennsylvania

We in the History and Sociology of Science Department at the University of Pennsylvania invite you to join us at a conference of graduate students interested in the history of science, medicine, and technology. The purpose of this conference is to foster collegial interaction among the graduate students of the many fine programs in the history of science (broadly understood) in this region, and to provide a forum for constructive and supportive critiques of each other's work. To encourage social as well as scholarly interaction, MAC will open on Friday, August 6 with a welcoming

reception for attendees. Saturday, August 7, and the morning of Sunday, August 8, will be devoted to paper presentations and "working sessions" of pre-circulated works longer than the typical conference paper, such as articles-to-be or dissertation chapters. Paper presentations will be 20–25 minutes. Each "working session" will be one hour, and will consist of a 20–30 minute presentation by the author with the remainder of the time devoted to discussion. Following the precedent established by the 1998 MAC organizers at Johns Hopkins University, we will strive to make this conference as productive and as inexpensive as possible for all participants. We will make an effort to house attendees with local graduate students, and some meals will be provided. For further information contact: A. Wolfe, Mid-Atlantic Conference Organizing Committee, History and Sociology of Science Department, University of Pennsylvania, 249 S. 36th St., Logan 303, Philadelphia, PA 19104-6304. E-mail: awolfe@sas.upenn.edu.

ACS National Meeting: 125th Anniversary of the Tetrahedral Carbon Atom

22–26 August 1999, New Orleans, LA

The year 1999 marks the 125th anniversary of the tetrahedral carbon atom. In honor of that anniversary the Division of Organic Chemistry, the Division of the History of Chemistry, and The Chemical Heritage Foundation are cosponsoring a symposium during the August 1999 New Orleans National Meeting of the American Chemical Society. Ideally, the symposium will be a mixture of papers on historical topics and reflections on current issues in stereochemistry by chemists (but not straightforward research results). For more information, contact Peter J. Ramberg, Tetrahedral Carbon Atom Symposium, Department of Chemistry, Johns Hopkins University, 3400 N. Charles St., Baltimore, MD 21218. ramberg@jhunix.hcf.jhu.edu.

Invencao: Thinking the Next Millennium

25–29 August 1999, Sao Paulo, Brazil

Invencao is an opportunity for those working at the creative edge of the arts, sciences and technology to collaborate in the transdisciplinary development of ideas and innovative strategies for life in the next millennium. Invencao is a "seeding" event that seeks to identify key questions and issues that can lead to the radical transformation of culture. Invencao will examine the consequences of this convergence of art, science and technology on our sense of self and human identity, on consciousness, community and the city, as well as on learning and leisure.

FEES: There will be a registration fee of US \$100 (or equivalent amount in national currency) for those who are selected to present. Members of ISEA, CAiiA/STAR and Leonardo/ISAST will be granted a 20% reduction. Further information is available at: <http://www.itaucultural.org.br/invencao/invencao.htm> or Instituto Cultural Itau, Av. Paulista 149, 01311-000 Sao Paulo (SP)—Brazil, tel 55 11 2381741, fax 55 11 2381720, invencao@itaucultural.org.br.

18th Congress of the British Society for the History of Medicine

8–11 September 1999, University of Leeds

The Congress is organized in conjunction with the Thackray Medical Museum, The Leeds Philosophical and Literary Society, and the Yorkshire Branch of the Society of Occupational Medicine. The Congress theme is Occupational Medicine and builds upon the industrial heritage of West Yorkshire and the fact that Charles Turner Thackray, the founder of the discipline, was born in Leeds and practiced medicine there. However, topics on many aspects of the History of Medicine and Dentistry will be included in the program. The venue for the event will be Bodington Hall, a University of Leeds Hall of Residence. For further details please contact Susan Lacey, Conference and Marketing Office, The University of Leeds, Leeds LS2 9JT. Tel: 0113 233 6106. Fax 0113 233 6107. E-mail: s.lacey@leeds.ac.uk.

Commission on the History of Women in Science, Technology and Medicine

10–12 September 1999, Newnham College, Cambridge, UK

The Women's Commission of the DHS/IUHPS will hold an open Conference/Workshop on "Women in the History of Science: Biography, Autobiography, Tasks, Results, Problems" at Newnham College, Cambridge, UK, 10–12 September 1999. The theme aims to direct contributors towards critical discussion of the (auto)biographical method. The total cost (including accommodation and all meals) will be about £165, around \$265 US at present rates. To join the email list to receive further information, write to jm148@cam.ac.uk.

Volta and the History of Electricity

11–15 September 1999, Pavia-Como

The Interdivisional History of Physics Group of the European Physical Society, together with the Commission on the History of Modern Physics of the DHS-IUPHS, is holding its

Fourth Conference at the Como "A. Volta" Centre for Scientific Culture at Pavia University. Papers for conference presentation and for inclusion in the Proceedings were due 1 May 1999. For more information, please see the Conference Web page, <http://www.cilea.it/volta99> or contact the Conference Coordinator: volta99@pv.infn.it.

4th International History, Philosophy and Science Teaching Conference and 8th European History and Physics Teaching Conference "Science as Culture"

15–19 September 1999, Pavia-Como

Jointly organized by the Group around the *Science & Education* journal and the EPS History of Physics Group, this conference follows earlier, successful ones. Papers for conference presentation and for inclusion in the Proceedings, were due 1 May 1999. For further information, refer to the conference Web site: www.cilea.it/volta99 or E-mail: volta99@pv.infn.it.

1999 Joint Atlantic Seminar in the History of Physical Sciences

17–19 September 1999, The George Washington University, Washington, DC

The Joint Atlantic Seminar in the History of Physical Sciences resumes its annual meetings. Registration for the seminar closes July 30. For more information see our Web site at <http://www.gwu.edu/~recsci/jashops.html> or write to: JASHOPS, Center for History of Physics, American Institute of Physics, College Park, MD 20740-3843.

Abraham Gottlob Werner (1749–1817) and His Times

19–24 September 1999

"Abraham Gottlob Werner (1749–1817) and His Times" is sponsored by the Technical University Bergakademie Freiberg and the International Commission on the History of Geological Sciences (INHIGEO). The symposium will focus on the geological sciences during Werner's lifetime. Participants may offer papers addressing the following themes: (a) Knowledge of the earth from 1750 to 1820 and the geological ideas of A.G. Werner; (b) Developments and communication, theoretical concepts and academic controversies, research centers and influences in geological sciences; (c) The relationships among geological knowledge and scientific, ideological, and religious ideas

during the Enlightenment and the early Industrial Revolution; (d) Werner and the technical disciplines related to mining ca. 1750–1820; (e) Werner and his natural history collections, private library and coin collection in relation to other contemporary coin collections and private libraries; (f) Werner's influence beyond the earth sciences and mining technology; and (g) the history of the influence and the reception of Werner's work. Copies of the first circular are available from: Tagungsbüro "Werner-Symposium," Akademiestrasse 6, TU Bergakademie Freiberg, D-09599 Freiberg (Sachsen), Germany. E-mail contacts are Dr. Peter Schmidt (pschmidt@ub.tu-freiberg.de) or Prof. Helmuth Albrecht (halbrecht@vwl.tu-freiberg.de).

Astronomische Gesellschaft

20 September 1999, Göttingen

The annual convention of the *Astronomische Gesellschaft* will be taking place in Göttingen this year under the rubric *NEW ASTROPHYSICAL HORIZONS*. At this occasion there will be a meeting of the History of Science Working Group (AK Astronomiegeschichte) on Monday, September 20, 1999. The Working Group's Organizing Committee has—with the approval of the society's Local Organizing Committee—chosen the following theme: The history and function of nonverbal representations in research practice in astronomy and astrophysics. This primarily involves images or other forms of pictorial registration (e.g., photos, video tapes) of observational data. Historical studies of astronomical and astrophysical representations are our emphasis, but scientists in the field are also invited to think about the current functions of imaging (e.g., unsharp masking, speckle deconvolution or image compression) and the ever changing techniques used, which inevitably will soon become part of history as well. The conference language is English. Following a decision by the society's board, a projected fee in the amount of about 30 DM (15 Euro) will have to be charged to all those participants not registering at the AG meeting. Please direct any questions to: Dr. Habil. Klaus Hentschel, Institute for History of Science, University of Göttingen, Humboldtallee 11, D-37073 Göttingen, Tel. +(49)-551-398412, E-mail: khentsc@gwdg.de. Organizational questions, technical requests, etc., please direct to: Dr. Axel D. Wittmann, Universitäts-Sternwarte, Geismarlandstr. 11, D-37083 Göttingen, Tel.

+(49)-551-395045, Fax. +(49)-551-395043, E-mail: wittmann@uni-sw.gwdg.de.

24th Annual Great Lakes History Conference

"History and the Telling of It II"

24–25 September 1999, Grand Rapids, MI

The theme of this conference is "History and the Telling of It II." We are pleased to announce that Dr. John Harley Warner of Yale University will be our keynote speaker. Those interested in chairing and commenting on a session should send a c.v. and indicate areas of expertise. Please address all inquiries to Dr. Carolyn Shapiro-Shapin, Department of History, Grand Valley State University, Allendale, MI 49401. E-mail: ShapiroC@gvsu.edu. Fax: (616) 895-3285. Phone: (616) 895-3445.

Speaking in Signs: Cultures of Communication in the Early Modern Americas

24–25 September 1999, University of Pennsylvania

This conference seeks to bring together a diverse group of graduate students interested in discussing the general themes of communication in the Early Americas in all of its forms and stages—from the production and dissemination of ideas/texts to their reception, appropriation, and re-deployment. For more information contact: McNeil Center for Early American Studies, University of Pennsylvania, 3440 Market Street, Suite 540, Philadelphia, PA 19104-3225, (215) 898-9251 / 9252, <http://ccat.sas.upenn.edu/mceas>.

Mephistos 1999

1–2 October 1999, University of Oklahoma

The University of Oklahoma History of Science Association is proud to announce the 18th annual Mephistos graduate student conference at the University of Oklahoma in Norman, Oklahoma on October 1–2, 1999. Mephistos is an annual conference for graduate students working in the field of Science Studies, which encompasses the history, philosophy, and sociology of science, technology, and medicine. Mephistos provides the opportunity for graduate students to present papers, engage in informal discussion, and meet students from other universities. Although Mephistos will appeal to people in science studies, students in other areas touching on the sciences or with an interest in interdisciplinary research are also encouraged to submit paper proposals and to attend the conference. A conference registration fee of \$10 is required of all attendees.

The 1999 Program Committee seeks proposals for individual papers related to the History, Philosophy, and Sociology of Science, Technology, Medicine from the ancient period to the present. Please mail, email or fax a one-page abstract for a 15–20 minute paper and brief c.v. postmarked by August 9, 1999 to: MePHiSToS 1999, Department of the History of Science, The University of Oklahoma, 601 Elm, Room 622, Norman, Oklahoma 73019-0315. Tel.: (405) 364-2003, Fax: (405) 325-2363, E-mail: mephistos@ou.edu.

Society for the History of Technology Annual Meeting

7–10 October 1999, Detroit, Michigan

The local arrangements committee for the 1999 meeting is busy making plans. The meeting will be held at the Detroit Marriott in downtown Detroit's Renaissance Center; we will also hold several events at the Henry Ford Museum. There will be ample time for visits to the Henry Ford Museum and Greenfield Village. Downtown Detroit boasts the Detroit Institute of Art, which houses the world-famous Diego Rivera murals, as well as vintage 1920s and 30s architecture. Two tours are definite at this time: "Ruins, Remains, and Reminders," a tour down Detroit's Woodward Avenue, the address of important auto factories and other interesting local sites. There will also be a trip to Henry Ford's estate, Fairlane. Other tours are in the planning stage and the organizers are waiting for final word on them. For questions or information about local arrangements contact the committee chair, Bob Casey: tel: 313-982-6079; fax: 313-982-6244; email: bobc@hfmvgv.org. <http://www.hfmvgv.org/shot/>.

Challenging Rhetorics: Cross-Disciplinary Sites of Feminist Discourse

7–9 October 1999, Minneapolis

The Center for Interdisciplinary Studies of Writing at the University of Minnesota announces a call for papers for the Second Biennial International Feminism(s) and Rhetoric(s) Conference "Challenging Rhetorics: Cross-Disciplinary Sites of Feminist Discourse," 7–9 October in Minneapolis. We invite 250-word proposals that share theories about and examples of new discourse practices emerging as a result of feminist scholarship across the disciplines in the academy. For further information, contact Hildy Miller at e-mail mille299@tc.umn.edu or see our Web site <http://CISW.cla.umn.edu>.

Sixteenth Century Studies Association Annual Meeting

28–30 October 1999, St. Louis

The annual meeting of the Sixteenth Century Studies Association will take place in St. Louis, October 28–30, 1999. The conference is devoted to a wide range of topics in sixteenth century studies, including early modern history of science. For more information contact Gerhild Scholz Williams, Coordinator, Department of German, Box 1104, Washington University, St. Louis, MO 63130, gerhild_williams@aismail.wustl.edu.

History of Geophysics and Space Physics March 2000, Munich, Germany

The History of Geophysics and Space Physics announces a one-day session during the Annual Meeting of the German Geophysical Society being held in Munich Germany. The session is open for oral lectures and posters. The topics are the development of geophysics as a scientific discipline during the last decades, biographical notes, discussion of international research programs and the interdisciplinary discussion of philosophical and historical problems in connection with geophysical research. For further information contact: Dr. Wilfried Schröder, Hechelstrasse 8, D-28777 Bremen-Roenebeck, Germany.

The Age of Economic Measurement

March or April 2000, Duke University

Participants in the 2000 workshop of the History of Political Economy will explore the history of the commitment to measurement in economics from the late 19th through early 20th centuries. We invite paper proposals that deal with the emergence of that commitment and its consequent effect on the economics discipline. We welcome proposals focused on the social, political and policy contexts of these changes, as well as those that explore interactions of economics with other disciplines in regard to measurement issues. (The full details of the theme of the workshop can be obtained from the organizers noted below.) Please send paper proposals (1 page only) to both Mary S. Morgan (at Department of Economic History, London School of Economics, Houghton St., London WC2A 2AE, UK, or to m.morgan@lse.ac.uk or to Fax: 44-171-955-7730) and Judy L. Klein (at Department of Economics, Mary Baldwin College, Staunton, VA 24401, USA, or to jklein@mbc.edu or to Fax: 1-540-887-7137).

Into the Next Millenium: The Past and Promise of Environmental History

16–19 March 2000, Tacoma, Washington

The American Society for Environmental History will hold its 2000 meeting in Tacoma, Washington. Papers and sessions will examine aspects of human interaction with the physical environment over time. For more information, contact Mart Stewart (program chair), Western Washington University, smar4@cc.wwu.edu; (360) 650-3455; Kate Christen, Smithsonian Institution, christen@osia.si.edu, (202) 357-1421; Gail Evans, histmaps@open.org, (503) 873-5854; Mark Harvey, North Dakota State, harvey@plains.NoDak.edu, (701) 231-8828; Nancy Langston, University of Wisconsin, nelangst@facstaff.wisc.edu, (608) 265-9008; Lisa Mighetto (ex-officio/local arrangements chair) Historical Research Associates, Inc., mighetto@montana.com, (206) 343-0226.

Third European Social Science History Conference

12–15 April 2000, Amsterdam

The ESSHC aims at bringing together scholars interested in explaining historical phenomena using the methods of the social sciences. The conference is characterized by a lively exchange in many small groups, rather than by formal plenary sessions. The Conference is organized in a large number of networks: Africa - Antiquity - Asia - Childhood - Criminal Justice - Culture - Economics - Education - Elites - Ethnicity - Family/Demography - Geography - Government and Politics - Health - Labor - Latin America - Middle Ages - Migration - Nations - Oral History - Political Movements - Quantitative Methods - Religion - Rural - Sexuality - Social inequality - Technology - Theory - Urban - Women/Gender. The Conference fee will be dfl. 300 (at present this is about US \$ 150). The deadline for sending an abstract was 30 April 1999. Further information about the European Social Science History Conference can be obtained from the Conference Internet site at <http://www.iisg.nl/ESSHC> or from the conference secretariat: European Social Science History Conference 2000, c/o International Institute of Social History, Cruquiusweg 31, 1019 AT Amsterdam, Netherlands; Telephone: +31.20.6685866; Fax: +31.20.6654181. E-mail: ESSHC@iisg.nl

American Association for the History of Medicine

Bethesda, MD, May 17–21, 2000

The American Association for the History of Medicine welcomes papers on topics related to

the history of health and healing; of medical ideas, practices and institutions; the history of illness, disease, and public health—from all eras and regions of the world. The program committee welcomes session proposals and proposals for luncheon workshops; as in previous years, papers will be judged on their individual merits. All papers must represent original work not already published or in press. Because the *Bulletin of the History of Medicine* is the official journal of the AAHM, the Association encourages speakers to make their manuscripts available for consideration by the "Bulletin" upon request. Please send six copies of a one page abstract of no more than 350 words to Harry M. Marks, Dept. of the History of Science, Medicine & Technology, The Johns Hopkins University, 1900 E. Monument Street, Baltimore, MD 21205. Abstracts should not merely state a research question, but should describe findings and conclusions sufficient to allow assessment by the program committee. Please also provide the following information: Name, preferred mailing address, work and home telephone numbers, present institutional affiliation and academic degrees. Abstracts must be received by 1 October 1999. E-mailed or faxed proposals will not be accepted.

Portraiture and Scientific Identity

23–24 June 2000, National Portrait Gallery,
London

This conference is being organized by the National Portrait Gallery and the British Society for the History of Science. The likely pattern of conference will be four plenary sessions and a number of shorter sessions with papers of 25 minutes. Professor Ludmilla Jordanova is responsible for the program, and offers of short papers can be made to her at any time between now and 1 November 1999. This should take the form of a brief abstract of no more than one page, together with any supporting material thought appropriate, for example, a list of items already published on the topic.

The final program will be drawn up by Christmas 1999, and it will be circulated in the new year. A copy of the final program can be sent to those who provide the Education Department of the National Portrait Gallery (St Martin's Place, London, WC2H 0HE) with a stamped addressed envelop marked 'BSHS conference.'

The meeting is being held in association with a small exhibition at the National Portrait Gallery, which will explore portraiture in relation to practitioners of science, medicine and technology since the seventeenth century in

Britain. The exhibition will open in late March or early April and will close at the end of June 2000. It will contain works in all media, and suggestions of unusual, visually interesting items that might be included can be made to Professor Jordanova, who would be particularly interested to hear of relevant self-portraits and of portraits made within domestic settings. The practice of portraiture is one of the main themes of the exhibition, so preparatory sketches are of particular relevance.

Professor Ludmilla Jordanova can be contacted at School of World Art Studies and Museology, University of East Anglia, Norwich, Norfolk, NR4 7TJ. E-mail: l.jordanova@uea.ac.uk. The BSHS website is at: http://www.man.ac.uk/Science_Engineering/CHSTM/bshs/.

SSHM Annual Conference: Medicine— Magic—Religion

17–18 July 2000, Southampton

This conference aims at a re-assessment of the boundaries and intersections between medicine, magic, and religion in the light of: the current upsurge of scholarly interest in the area of pre-modern history of medicine; conceptual debates on the epistemological status of science and medicine, vis-a-vis magic and religion; recent writing on 'colonial medicine' and on the inter-relationships; hegemonic tendencies and conceptual incompatibilities of different cosmologies and systems of healing; recent contributions by post-colonial and subaltern histories to the critique of dichotomous categories such as "East" versus "West," "rationality" versus "irrationality," "science" versus "belief;" the rise of "alternative" medicine in western countries and its construction as a "holistic" and more "spiritual" alternative to "scientifically" based bio-medicine.

It is intended to bring together historians and social scientists working on the development of medical theories and practices during different periods of time and within diverse cultural contexts. Offers of papers based on interdisciplinary and comparative perspectives are particularly welcome.

If you would like to present a paper at the conference, please send an abstract (pasted into an e-mail) to WER@soton.ac.uk by 31 January 2000.

Contact for registration details: Dr Waltraud Ernst, Department of History, University of Southampton, Southampton SO17 1BJ. E-mail: WER@soton.ac.uk Bookings should arrive no later than 1 April

2000. You are advised to register on time as the conference venue can only accommodate a maximum of 90 participants.

ICES History Symposium: 100 Years of Science under ICES

1–3 August 2000, Helsinki, Finland

The International Council for the Exploration of the Sea (ICES), the world's oldest intergovernmental marine science organization, will celebrate its Centenary in 2002. One of several major events commissioned by the Council to mark this historic occasion will be this Symposium, slated for 1–3 August 2000 in Helsinki, Finland. The Symposium will focus on the key role ICES has played over the past century in major developments in the fields of marine fisheries, hydrography, and environmental quality.

The Symposium is open to all scientists, historians, students, and others who have an interest in the historical development of marine science, particularly that involving ICES. Contributors must submit titles with 200–300 word abstracts to the Convenor by 31 August 1999. Contributions will be published, following peer review, in a special issue of the *ICES Journal of Marine Science*. A registration fee of US \$125 (US \$75 for students), due by 1 July 2000, will cover costs of coffee, tea, Symposium Dinner and a copy of the published proceedings. For more information, contact the Symposium Convenor: Dr Emory D. Anderson, NOAA/NMFS, Northeast Fisheries Science Center, Woods Hole, MA 02543, USA, Tel: +1 508 495 2317; Fax: +1 508 495 2393. E-mail: emory.anderson@noaa.gov.

Fourth British-North American Joint Meeting of the BSHS, CSHPS, and HSS What is to be done? History of Science in the New Millennium

3–6 August 2000, St. Louis, Missouri, USA

Following successful meetings in Manchester (1988), Toronto (1992), and Edinburgh (1996), the British Society for the History of Science, the Canadian Society for the History and Philosophy of Science, and the History of Science Society will be undertaking their fourth international joint meeting in St. Louis, Missouri, August 3–6, 2000. The program committee, with members drawn from the three participating societies, has chosen as the meeting theme: "What is to be done? History of Science in the New Millennium." Session proposals are invited on topics that address particularly: critical historiographical issues in the history of science,

past, present and future; master narratives in the history of science, including reassessments of earlier narratives and presentations of new ones; evaluating the relationship between the history of science and other disciplines, such as sociology, literary studies, social history, cultural history, environmental history, natural science (the "science wars"); important absences in the history of science: what's been missed? what can't be said?; differing modes of investigation in the history of science, including museum and material culture studies, history of popular culture, history of printing and publishing, and others; re-examinations of particular chronological (e.g., Enlightenment or medieval science) and thematic fields (e.g., the history of biology, science and gender, science and popular culture); the development of history of science as a discipline and as a profession, in particular to provide an international perspective to the issues that the HSS is considering at its 75th anniversary meeting in 1999. This announcement constitutes a call for papers. The meeting will be organized into sessions of three or four papers with commentator. Proposals for complete sessions are encouraged, although proposals for individual papers will also be considered. Session organizers are urged to include speakers from more than one country. Electronic submissions via the HSS Web site are preferred. <http://depts.washington.edu/hssexec/2000/joint2000.html>. Proposals, including abstracts of approximately 250 words for each paper, are due at the HSS Executive Office (see address on page 2) by 15 December 99, with notification of acceptance by early February in 2000. Conference participants may expect to receive a program of published abstracts. For further details contact the HSS Executive office at hssexec@u.washington.edu or the program committee: Jon Agar, agar@fs4.ma.man.ac.uk; Bernie Lightman, lightman@yorku.ca; and Paul Theerman, paul_theerman@nlm.nih.gov.

International Congress of Historical Sciences

6–13 August 2000, Oslo, Norway

The International Committee of Historical Sciences has chosen Oslo for the 19th International Congress of Historical Sciences, 6–13 August 2000. The largest regular meetings of professional historians from all over the world, these congresses take place every five years. The Congress will consist of three major themes of one full day each, 20 specialized themes with half a day each, and 25 roundtable discussions. English and French will be the official languages of the Congress, and simultaneous Norwegian

translation will be provided for all plenary sessions. The International Congresses of Historical Sciences function as comprehensive surveys of new trends and developments within various historical disciplines. They also serve as an arena for critical debate about central themes of current scholarship and the pioneer fronts of historical research. In order to ensure the widest possible participation from all parts of the world, grants will be available for participants from selected regions. Please send information requests to: The 19th International Congress of Historical Sciences, Department of History, P.O. Box 1008, Blindern, N-0315 Oslo, Norway.

Transformation and Continuity in the History of Universities International Commission for the History of Universities

9–11 August 2000, Oslo, Norway

The next colloquium of the International Commission for the History of Universities will be held in Oslo (Norway) 9–11 August 2000 in conjunction with the congress of the International Committee of Historical Sciences. Besides the Catholic Church the university is commonly recognized as the oldest existing institution within the Western world. At the same time the university is appreciated as one of the most potent dynamic forces within modern society. This paradox constitutes a core problem in the history of universities. Further information is available on the Internet (address below). Proposals for papers were due 1 June 1999. The committee will announce the definitive program on 15 January 2000. All enquiries, suggestions and proposals for papers should be made in the first instance to Prof. Sivert Langholm or Research Fellow Fredrik W. Thue, Forum for Universitetshistorie Department of History, University of Oslo Pb. 1008 Blindern N-0315 Oslo Phone: + 47 22 85 68 09 (Langholm) or + 47 22 85 42 06 (Thue) Fax: + 47 22 85 57 51 E-mail: univhist-2000@hi.uio.no Internet: <http://www.hf.uio.no/oslo2000/unihist/>.

Writing the Past, Claiming the Future: Women and Gender in Science, Medicine, and Technology

12–15 October 2000, St. Louis University

"Writing the past, claiming the future" is being designed to further conversations begun at previous conferences among historians of science, medicine, and technology. These discussions made explicit how much historians of science, medicine, and technology can learn from each other. It is intended to invite greater

interchange among the disciplines, while recognizing the uniqueness of each. Conference themes will include, but not be limited to, personal and external factors that empower or inhibit women's participation in the scientific, medical, and technological disciplines; scientific, medical, and technological ideas that have influenced ideas about gender and gender roles in the disciplines and in the wider society; and the relationship between gender and conceptions of knowledge and the practice of science, medicine, and technology.

Individual papers and panels are solicited on topics that explore the interdisciplinary relationships of women and gender and science, medicine, and technology. Conference organizers strongly encourage the submission of panels of two or three papers. We are particularly interested in panels that encompass a range of perspectives and stimulate "crosstalk" among scholars of different disciplines. Proposals must include two copies of a one-page abstract and a one-page curriculum vitae. For proposals submitted as a panel, an abstract and vitae are required for each panel member. Proposals are due by January 1, 2000. If you have any questions or would like to be put on the mailing list to receive the conference brochure, please contact Charlotte G. Borst, Chair, Local Arrangements Committee, Department of History, Saint Louis University, 3800 Lindell Blvd., St. Louis, MO 63156. Conference materials will be available after August 1, 2000.

Isis Books Received

Prior to the publication of each *Newsletter*, the HSS Executive Office receives from the *Isis* Editorial Office a list of books received by that office for potential review. This list appears here quarterly; it is not compiled from the annual Current Bibliography.

Isis Books Received, Quarterly Report to 30 May 1999.

Abraham, Lyndy. *A Dictionary of Alchemical Imagery.* xxii + 249 pp., frontis., illus., bibl., index. Cambridge, Eng./New York: Cambridge University Press, 1998. \$80.

Acceves, Patricia. *Construyendo las Ciencias Químicas y Biológicas.* (Estudios de Historia Social de las Ciencias Químicas y Biológicas, 4.) 271 pp., table. Villa Quietud, Mexico: Universidad Autónoma Metropolitana/Casa Abierta al Tiempo, 1998.

Alter, Stephen G. *Darwinism and the Linguistic Image: Language, Race, and Natural Theology in the Nineteenth Century.* (New Studies in American Intellectual and Cultural History.) xvi + 193 pp., illus.,

figs., bibl., index. Baltimore/London: Johns Hopkins University Press, 1999. \$39.

Andersson-Skog, Lena; Krantz, Olle (Editors). *Institutions in the Transport and Communications Industries: State and Private Actors in the Making of Institutional Patterns, 1850-1990.* xx + 359 pp., figs., table, app., bibl., index. Canton, Mass.: Science History Publications, 1999. \$49.95.

Andrews, Francis B. *The Mediaeval Builder and His Methods.* (Dover Books on History, Political and Social Science.) [xviii] + 112 pp., frontis., illus., apps. Reprint of 1922 edition. Mineola, N.Y.: Dover, 1999. \$6.95 (paper).

Arnal, Yolanda Texera (Compiler). *La modernización difícil: Henri Pittier en Venezuela, 1920-1950.* Foreword by **Leonor Gimenez de Mendoza.** 704 pp., illus., tables. Caracas: Fundación Polar, 1998.

Bachmann, Manuel; Hofmeier, Thomas. *Geheimnisse der Alchemie.* 271 pp., illus., app., bibl. Basel: Schwabe and Co., 1999. DM78.

Barkan, Diana Kormos. *Walther Nernst and the Transition to Modern Physical Science.* xii + 288 pp., illus., bibl., index. New York/Cambridge, Eng.: Cambridge University Press, 1999. \$64.95.

Bell, Rudolph M. *How to Do It: Guides to Good Living for Renaissance Italians.* xiv + 375 pp., illus., index. Chicago/London: Chicago University Press, 1999. \$25, £19.95.

Benedetti, Alessandro. *Historia corporis humani sive Anatomice.* Introduced, translated, and edited by **Giovanna Ferrari.** (Biblioteca della Scienza Italiana, 21.) 365 pp., indexes. Rome: Giunti, 1998. L55,000.

Benson, Donald C. *The Moment of Proof: Mathematical Epiphanies.* [vii] + 331 pp., figs., tables, bibl., index. New York/Oxford, Eng.: Oxford University Press, 1999. \$30.

Beretta, Marco; Pogliano, Claudio; Redondi, Pietro. *Journals and History of Science.* (Istituto e Museo di Storia della Scienza/Biblioteca di 'Nuncius,' 32.) (Based on the Conference, "Journals and History of Science," June 5-6, 1997.) viii + 268 pp., illus., app., index. Florence: Leo S. Olschki, 1998. L54,000.

Blay, Michel. *La Naissance de la Science Classique au XVIIe Siècle.* 128 pp., figs., bibl. Paris: Nathan, 1999. (Paper.)

Bolzano, Bernard. *Bernard Bolzano: Miscellanea Mathematica 14.* Edited by **Bob van Rootselaar** and **Anna van der Lugt.** (Bernard Bolzano-Gesamtausgabe, 2d series, 8.) 210 pp., figs., bibl., indexes. Stuttgart: Friedrich Frommann Verlag, 1999. DM 398

Bondeson, Jan. *The Feejee Mermaid and Other Essays in Natural and Unnatural History.* xiv + 315 pp., illus., figs., bibl. Ithaca, N.Y./London: Cornell University Press, 1999. \$29.95.

Brand, Stewart. *The Clock of the Long Now: Time and Responsibility.* [vi] + 190 pp., illus., figs., bibl., index. New York: Basic Books, 1999. \$22.

Brooke, John; Cantor, Geoffrey. *Reconstructing Nature: The Engagement of Science and Religion.* xii + 367 pp., illus., indexes. Edinburgh: T & T Clark, 1998. \$49.95

Canine, Craig. *Dream Reaper: The Story of an Old-Fashioned Inventor in the High-Tech, High-Stakes World of Modern Agriculture.* [xii] + 300 pp., illus., figs., bibl., index. Originally published 1995. Chicago/London: Chicago University Press, 1999. \$14.95 (paper).

Cao, Tian Yu (Editor). *Conceptual Foundations of Quantum Field Theory.* (Based on papers presented at the Center for Philosophy and History of Science, Boston University, 1-3 March, 1996.) xx + 399 pp., illus., figs., indexes. Cambridge, Eng./New York: Cambridge University Press, 1999. \$100.

Capelotti, P. J. *By Airship to the North Pole: An Archeology of Human Exploration.* xxiv + 209 pp., frontis., illus., bibl., index. New Brunswick, N.J./London: Rutgers University Press, 1999. \$26.

Cellucci, Carlo. *Le ragioni della logica.* (Biblioteca di Cultura Moderna, 1136.) xxviii + 403 pp., fig., indexes. Rome: Editori Laterza, 1998. L58.000.

Cetina, Karin Knorr. *Epistemic Cultures: How the Sciences Make Knowledge.* xviii + 329 pp., figs., bibl., index. Cambridge, Mass./London: Harvard University Press, 1999. \$45 (cloth); \$22.95 (paper).

Crease, Robert P. *Making Physics: A Biography of Brookhaven National Laboratory, 1946-1972.* xii + 434 pp., illus., figs., apps., bibl., index. Chicago/London: University of Chicago Press, 1999. \$38, £30.50.

Crist, Eileen. *Images of Animals: Anthropomorphism and Animal Mind.* (Animals, Culture, and Society.) xvi + 245 pp., illus., figs., bibl., index. Philadelphia: Temple University Press, 1999. \$34.95.

d'Espagnat, Bernard. *Conceptual Foundations of Quantum Mechanics.* Foreword by David Pines. (Advanced Book Classics.) xlvi + 301 pp., indexes. Originally published 1976. Second edition. Reading, Mass.: Perseus Books, 1999. \$35 (paper).

Darnell, Regna. *And Along Came Boas: Continuity and Revolution in Americanist Anthropology.* (Amsterdam Studies in the Theory and History of Linguistic Science, 86.) xviii + 331 pp., frontis., illus., bibl., indexes. Amsterdam/Philadelphia: John Benjamins Publishing Co., 1998. \$89.

Day, P. (Editor). *The Search for Extraterrestrial Life: Essays on Science and Technology.* xii + 167 pp., illus., figs., tables. Oxford, Eng./New York: Oxford University Press, 1998. \$35.

Dean, Dennis R. *Gideon Mantell and the Discovery of Dinosaurs.* xx + 290 pp., illus., figs., app., index. New York/Cambridge, Eng.: Cambridge University Press, 1999. \$69.95.

den Otter, A. A. *The Philosophy of Railways: The Transcontinental Railway Idea in British North America.* [xxiv] + 292 pp., illus., figs., index. Toronto/Buffalo/London: University of Toronto Press, Inc., 1997. \$34.95.

DeVorkin, David H. (Editor). *The American Astronomical Society's First Century.* xii + 350 pp., frontis., illus., figs., tables, apps., index. Washington, D.C.: American Institute of Physics, 1999.

Dikötter, Frank. *Imperfect Conceptions: Medical Knowledge, Birth Defects, and Eugenics in China.* x + 226 pp., illus., app., bibl., index. New York: Columbia University Press, 1998. \$27.50.

Dupont, Jean-Claude. *Histoire de la neurotransmission.* Preface by Claude Debru. (Science, Histoire et Societe.) viii + 305 pp., app., bibl., index. Paris: Presses Universitaires de France, 1999. Fr148 (paper).

Edison, Thomas A. *The Papers of Thomas A. Edison: The Wizard of Menlo Park, 1878.* Edited by Paul B. Israel, Keith A. Nier, Louis Carlat. Series Editor Robert A. Rosenberg. (The Papers of Thomas A. Edison.) xlviii + 919 pp., frontis., illus., figs., bibl., index. Baltimore/London: Johns Hopkins University Press, 1999. \$75.

Elena, Alberto; Ordóñez, Javier; Colubi, Mariano (Compilers). *Después de Newton: Ciencia y Sociedad durante la Primera Revolución Industrial.* (Tecnología, Ciencia, Naturaleza, y Sociedad, 9.) 207 pp., illus., app. Barcelona: Anthropos Editorial, 1998. (Paper.)

Elichirigoity, Fernando. *Planet Management: Limits to Growth, Computer Simulation, and the Emergence of Global Spaces.* (Media Topographies.) xii + 131 pp., bibl., index. Evanston, Ill.: Northwestern University Press, 1999. \$64.95 (cloth); \$24.95 (paper).

Ernst, Carl H. *Venomous Reptiles of North America.* x + 236 pp., illus., figs., app., bibl., index. Washington, D.C./London: Smithsonian Institution Press, 1999.

Evans, James. *The History and Practice of Ancient Astronomy.* xiv + 480 pp., frontis., illus., figs., tables, apps., bibl., index. New York/Oxford, Eng.: Oxford University Press, 1998. \$65.

Fahlbusch, Michael. *Wissenschaft im Dienst der nationalsozialistischen Politik? Die 'Völkischen Forschungsvereinigungen' von 1931-1945.* 887 pp., figs., tables, app., bibl., index. Baden-Baden: Nomos Verlagsgesellschaft, 1999. DM138 (paper).

Faraday, Michael. *The Philosopher's Tree: A Selection of Michael Faraday's Writings.* Compiled and with commentary by Peter Day. xvi + 211 pp., frontis., illus., figs., app., index. Bristol, Eng./Philadelphia: Institute of Physics, 1999. \$75 (cloth); \$29 (paper).

Fine, Edith Hope. *Barbara McClintock: Nobel Prize Geneticist.* (People to Know.) 128 pp., illus., app., index. Springfield, N.J./Aldershot, Eng.: Enslow Publishers, 1998. \$19.95.

Finocchiaro, Maurice. *Beyond Right and Left: Democratic Elitism in Mosca and Gramsci.* (Italian Literature and Thought.) xii + 302 pp., bibl., index. New Haven, Conn./London: Yale University Press, 1999. \$32.50.

Fisher, James T., Dr. *America: The Lives of Thomas A. Dooley, 1927-1961.* xiv + 304 pp., illus., fig., index. Amherst, Mass.: University of Massachusetts Press, 1997. \$29.95 (cloth); \$16.95 (paper).

Fishman, Jay; Sachs, David; Shaikh, Rashid (Editors). *Xenotransplantation: Scientific Frontiers and Public Policy.* (Annals of the New York Academy of Science, 862.) xxii + 250 pp., illus., figs., tables, index. New York: New York Academy of Sciences, 1998. \$100 (paper).

Force, Roland W. *Politics and the Museum of the American Indian: The Heys and the Mighty.* xxviii + 504 pp., illus., app., bibl., index. Honolulu: Mechas Press, 1999. \$33.

Fox, Robert; Nieto-Galan, Agusti (Editors). *Natural Dyestuffs and Industrial Culture in Europe, 1750-1880.* (European Studies in Science History and the Arts, 2.) xx + 354 pp., illus., figs., tables, apps., index. Canton, Mass.: Science History Publications, 1999. \$49.95.

Gasman, Daniel. *Haeckel's Monism and the Birth of Fascist Ideology.* (Studies in Modern European History, 33.) viii + 482 pp., bibl., index. New York: Peter Lang, 1998. \$69.95.

Gauchet, Marcel; Swain, Gladys. *Madness and Democracy: The Modern Psychiatric Universe.* Translated by Catherine Porter. Foreword by Jerrold Seigel. (New French Thought.) xxviii + 323 pp., bibl., index. Translation of 1980 edition of *La Pratique de l'esprit Humain.* Princeton, N.J.: Princeton University Press, 1999. \$29.95.

Gazale, Midhat J. *Gnomon: From Pharaohs to Fractals.* xiv + 259 pp., illus., figs., tables, index. Princeton, N.J.: Princeton University Press, 1999. \$29.95, £17.95.

Gilman, Sander L. *Making the Body Beautiful: A Cultural History of Aesthetic Surgery.* xxii + 396 pp., illus., index. Princeton, N.J.: Princeton University Press, 1999. \$29.95, £17.95.

Görs, Britta. *Chemischer Atomismus: Anwendung, Veränderung, Alternativen im deutschsprachigen Raum in der zweiten Hälfte des 19. Jahrhunderts.* (BBGNT, 23.) 240 pp., bibl., index. Berlin: ERS, 1999. DM 51 (paper).

Greene, John C. *Debating Darwin: Adventures of a Scholar.* iv + 288 pp., index. Claremont, Calif.: Regina Books, 1999. \$34.95.

Grey, Michael R. *New Deal Medicine: The Rural Health Programs of the Farm Security Administration.* xx + 238 pp., illus., figs., tables, index. Baltimore/London: Johns Hopkins University Press, 1999. \$42.50.

Heath, Thomas. *Mathematics in Aristotle.* Preface by Ada Mary Heath. (Key Texts: Classic Studies in the History of Ideas.) xiv + 291 pp., figs., app., index. Reprint of 1949 edition. Bristol, Eng.: Thoemmes Press, 1998. \$22.95 (paper).

Heilbron, Johan. *The Rise of Social Theory.* Translated by Sheila Gogol. (Contradictions of Modernity, 1.) viii

+ 317 pp., index. Minneapolis: University of Minnesota Press, 1995. \$19.95 (paper).

Henry, Joseph. *The Papers of Joseph Henry*. Volume 7: January 1847-December 1849. *The Smithsonian Years*. Edited by **Marc Rothenberg**. Associate Editors **Paul H. Theerman** and **Kathleen W. Dorman**. Assistant Editor **John C. Rumm**. Research Assistant **Deborah Y. Jeffries**. xviii + 707 pp., frontis., illus., figs., index. Washington, D.C./London: Smithsonian Institution Press, 1996. \$80.

Henry, Joseph. *The Papers of Joseph Henry*. Volume 8: January 1850-December 1853, *The Smithsonian Years*. Edited by **Marc Rothenberg**. Assistant Editor **Kathleen W. Dorman**. Historians **Deborah Y. Jeffries** and **Frank R. Millikan**. xlx + 548 pp., frontis., illus., figs., index. Washington, D.C./London: Smithsonian Institution Press, 1998. \$80.

Hill, Donald R. *Studies in Medieval Islamic Technology: From Philo to al-Jazari—From Alexandria to Diyar Bakr*. Edited by **David A. King**. (Variorum Collected Studies Series.) xxvi + various paginations. illus., figs., tables, index. Aldershot, Eng./Brookfield, Vt.: Ashgate, 1998. \$110.95.

Hippocrates. *Places in Man*. Edited and translated with an introduction and commentary by **Elizabeth M. Craik**. xxiii + 259 pp., figs., apps., bibl., indexes. Oxford, Eng./New York: Clarendon Press, 1998. \$85.

Hoffman, Banesh. *Relativity and Its Roots*. (Dover Science Books.) viii + 161 pp., frontis., illus., figs., index. Reprint of 1983 edition. Mineola, N.Y.: Dover Publications, 1999. \$7.95 (paper).

Hoffman, Paul. *The Man Who Loved Only Numbers: The Story of Paul Erdős and the Search for Mathematical Truth*. [xii] + 302 pp., illus., figs., apps., bibl., index. New York: Hyperion, 1998. \$22.95, Can\$30.95.

Horney, Karen. *The Therapeutic Process: Essays and Lectures*. Edited with an introduction by **Bernard J. Paris**. xviii + 272 pp., bibl., index. New Haven/London: Yale University Press, 1999. \$30.

Hoskin, Michael. *The Cambridge Concise History of Astronomy*. xiv + 362 pp., illus., figs., apps., bibl., index. Based on the Cambridge Illustrated History of Astronomy. Cambridge, Eng./New York: Cambridge University Press, 1999.

Hövel, Gerlinde. 'Qualitates vegetabilium,' 'vires medicamentorum,' und 'oconomicus usus plantarum' bei Carl von Linné (1707-1778): *Erste Versuche einer zielgerichteten Forschung nach Arznei- und Nutzpflanzen auf wissenschaftlicher Grundlage*. (Braunschweiger Veröffentlichungen zur Geschichte der Pharmazie und der Naturwissenschaften, 42.) x + 452 pp., illus., figs., tables, apps., bibl., index. Stuttgart: Deutscher Apotheker Verlag, 1999. DM48 (paper).

Ihsanoglu, Ekmeleddin (Editor). *Osmanlı Astronomi Literatürü Tarihi: (History of Astronomy Literature during the Ottoman Period)*. (İslâm Tarih, Sanat ve Kültür Araştırma Merkezi.) ccvi + 1146 pp., illus., tables, apps., bibl., indexes. 2 vols. Istanbul:

Research Center for Islamic History, Art, and Culture, 1997. \$100.

Jouanna, Jacques. *Hippocrates*. Translated by **M. B. DeBevoise**. (Medicine and Culture.) xvi + 520 pp., bibl., indexes. Translation of 1992 edition of *Hippocrate*. Baltimore/London: Johns Hopkins University Press, 1999. \$49.95.

Junker, Thomas; Engels, Eve-Marie (Editors). *Die Entstehung der Synthetischen Theorie: Beiträge zur Geschichte der Evolutionsbiologie in Deutschland, 1930-1950*. (Verhandlungen zur Geschichte und Theorie der Biologie, 2.) 380 pp., figs., tables, apps., indexes. Berlin: Verlag für Wissenschaft und Bildung, 1999. DM48 (paper).

Kammen, Daniel M.; Hassenzahl, David M. *Should We Risk It? Exploring Environmental, Health, and Technological Problem Solving*. xx + 404 pp., figs., tables, apps., index. Princeton, N.J.: Princeton University Press, 1999. \$39.50, £23.95.

Kaufman, Polly Welts. *National Parks and the Woman's Voice: A History*. xvi + 312 pp., illus., app., bibl., index. Albuquerque: University of New Mexico Press, 1998. \$18.95 (paper).

Kealey, Terence. *The Economic Laws of Scientific Research*. xii + 382 pp., figs., tables, index. New York: St. Martin's Press, 1997. \$19.95 (paper).

König, Wolfgang. *Künstler und Strichezieher: Konstruktions- und Technikulturen im deutschen, britischen, amerikanischen und französischen Maschinenbau zwischen 1850 und 1930*. (Suhrkamp Taschenbuch Wissenschaft, 1287.) 263 pp., bibl., indexes. Frankfurt am Main: Suhrkamp Verlag, 1999. DM 19.80.

Krebs, Robert E. *Scientific Development and Misconceptions through the Ages: A Reference Guide*. xviii + 286 pp., figs., tables, bibl., indexes. Westport, Conn./London: Greenwood Press, 1999.

Kushner, Howard I. *A Cursing Brain? The Histories of Tourette Syndrome*. xvi + 303 pp., illus., fig., app., index. Cambridge, Mass./London: Harvard University Press, 1999. \$29.95.

Lamphere, Louise; Ragoné, Helena; Zavella, Patricia (Editors). *Situated Lives: Gender and Culture in Everyday Life*. 493 pp., illus., figs., bibl., index. New York/London: Routledge, 1997. \$75 (cloth); \$28.99 (paper).

Lanham, Url. *Earth: The Sapphire Planet*. (Dover Books on Earth Sciences.) 138 pp., index. Reprint of 1978 edition. Mineola, N.Y.: Dover Publications, 1999. \$6.95 (paper).

Leary, William M. *Under Ice: Waldo Lyon and the Development of the Arctic Submarine*. Foreword by **John H. Nicholson**. xxviii + 303 pp., illus., bibl., index. College Station, Tex.: Texas A&M University Press, 1999. \$32.95.

Leavitt, Judith Walzer (Editor). *Women and Health in America: Historical Readings*. x + 692 pp., figs., table,

bibl. Originally published 1984. Second edition. Madison: University of Wisconsin Press, 1999. \$65 (cloth); \$27.95 (paper).

Lewis, Mark Edward. *Writing and Authority in Early China*. (SUNY Series in Chinese Philosophy and Culture.) viii + 544 pp., bibl., index. Albany, N.Y.: SUNY Press, 1999. \$31.95 (paper).

Lichter, S. Robert; Rothman, Stanley. *Environmental Cancer: A Political Disease?* xiv + 235 pp., figs., tables, bibl., index. New Haven/London: Yale University Press, 1999. \$35 (cloth); \$17 (paper).

Lochrie, Karma. *Covert Operations: The Medieval Uses of Secrecy*. (The Middle Ages Series.) [vi] + 292 pp., bibl., index. Philadelphia: University of Pennsylvania Press, 1999. \$45, £34.

Lowe, Donald R.; Byerly, Gary R. (Editors). *Geologic Evolution of the Barberton Greenstone Belt, South Africa*. (Geological Society of America Special Paper, 329.) vi + 319 pp., illus., figs., tables, bibl., index. Boulder: Geological Society of America, 1999. \$60 (paper).

Macfarlane, Allison; Sorkhabi, Rasoul B.; Quade, Jay (Editors). *Himalay and Tibet: Mountain Roots to Mountain Tops*. (Geological Society of America, Special Paper 328.) iv + 330 pp., illus., figs., tables, index. Boulder, Colo.: Geological Society of America, 1999. \$70 (paper).

Mack, Arien (Editor). *Humans and Other Animals*. (Based on papers presented at "In the Company of Animals," April 1995 at the New School for Social Research, New York City.) xvi + 439 pp., illus., figs., tables, app., index. Originally published in 1995 as "In the Company of Animals," a special issue of *Social Research*. Columbus: Ohio State University Press, 1999. \$45 (cloth); \$20 (paper).

Maienschein, Jane; Ruse, Michael (Editors). *Biology and the Foundation of Ethics*. (Cambridge Studies in Philosophy and Biology.) viii + 336 pp., figs., app., index. Cambridge, Eng./New York: Cambridge University Press, 1999. \$64.95 (cloth); \$19.95 (paper).

Maines, Rachel P. *The Technology of Orgasm: 'Hysteria,' the Vibrator, and Women's Sexual Satisfaction*. (Johns Hopkins Studies in the History of Technology, 24.) xx + 181 pp., illus., bibl., index. Baltimore/London: Johns Hopkins University Press, 1999. \$22.

Major, F. G. *The Quantum Beat: The Physical Principles of Atomic Clocks*. xiv + 475 pp., illus., figs., bibl., index. New York/Berlin: Springer, 1998. \$49.95.

Mansfeld, Jaap. *Prolegomena Mathematica: From Apollonius of Perga to Late Neoplatonism*. (Philosophia Antiqua, 80.) viii + 178 pp., bibl., indexes. Leiden/Boston/Koln: E. J. Brill, 1998.

Maxwell, Nicholas. *The Comprehensibility of the Universe: A New Conception of Science*. xvi + 316 pp., figs., bibl., index. Oxford, Eng./New York: Clarendon Press, 1999. \$60.

McGinn, Colin. *The Mysterious Flame: Conscious Minds in a Material World*. xiv + 242 pp., index. New York: Basic Books, 1999. \$24.

McGregor, Deborah Kuhn. *From Midwives to Medicine: The Birth of American Gynecology.* xii + 273 pp., illus., table, index. New Brunswick, N.J./London: Rutgers University Press, 1998.

McLaughlin, Hooley. *The Ends of Our Exploring: Ethical and Scientific Journeys to Remote Places.* x + 382 pp., illus., figs., index. Toronto: Malcolm Lester Books, 1999. \$24.95 (paper).

Mills, John A. *Control: A History of Behavioral Psychology.* xiv + 246 pp., index. New York/London: New York University Press, 1998. \$37.50.

Monmonier, Mark. *Air Apparent: How Meteorologists Learned to Map, Predict, and Dramatize Weather.* xiv + 309 pp., illus., figs., tables, app., index. Chicago/London: University of Chicago Press, 1999. \$27.50, £21.95.

Mooney, Douglas D.; Swift, Randall J. *A Course in Mathematical Modeling.* (Classroom Resource Materials.) xx + 431 pp., figs., tables, apps., bibl., index. Washington, D.C.: Mathematical Association of America, 1999. \$41.95 (paper).

Mooney, Linne R. (Editor). *The Kalendarium of John Somer.* Foreword by **Robert E. Lewis. xii + 224 pp., frontis., figs., tables, apps. Athens, Ga.: University of Georgia Press, 1999.**

Morantz-Sanchez, Regina. *Conduct Unbecoming a Woman: Medicine on Trial in Turn-of-the-Century Brooklyn.* xii + 292 pp., illus., figs., app., index. Oxford, Eng./New York: Oxford University Press, 1999. \$30.

Müller, Gerhard H. *Philosophia Scientiae: Travaux d'histoire et de philosophie des sciences. Studien zur Wissenschaftsgeschichte und -philosophie. Themen zur Geschichte der Biologie zum 60. Geburtstag von Professor Dr. Armin Geus.* (Philosophia Scientiae, Cahier Spécial, 2.) 258 pp., illus., figs., apps., bibl. Nancy, France: Presses Universitaires de Nancy, 1998-99. Fr130, DM40.

Müller-Wille, Staffan. *Botanik und weltweiter Handel: zur Begründung eines natürlichen Systems der Pflanzen durch Carl von Linné (1707-78).* (Studien zur Theorie der Biologie, 3.) 351 pp., illus., figs., bibl., indexes. Berlin: Verlag für Wissenschaft und Bildung, 1999. DM48 (paper).

Mutel, Cornelia F. *Flowing through Time: A History of the Iowa Institute of Hydraulic Research.* Foreword by **Virendra C. Patel.** xvi + 299 pp., illus., figs., apps., index. Iowa City: Iowa Institute of Hydraulic Research, 1998. \$20 (paper).

Netz, Reviel. *The Shaping of Deduction in Greek Mathematics.* (Ideas in Context, 51.) xviii + 331 pp., figs., app., bibl., index. New York/Cambridge, Eng.: Cambridge University Press, 1999.

Pahta, Päivi. *Medieval Embryology in the Vernacular: The Case of De Spermate.* (Mémoires de la Société Néophilologique de Helsinki, 53.) xii + 328 pp., frontis., apps., bibl. Helsinki: Société Néophilologique, 1998.

Panza, Marco; Roero, Clara Silvia (Editors). *Geometria, flussioni e differenziali: Tradizione e innovazione nella matematica del seicento.* (Istituto

Italiano per gli Studi Filosofici, Seminari de Scienze, New Series, 8.) 476 pp., figs., bibl., index. Naples: Edizioni "La Citta del Sole," 1995. L52,000.

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