

**History of Science Society  
2003 Annual Meeting**



**20-23 November, 2003  
Cambridge, Massachusetts**



# **HISTORY OF SCIENCE SOCIETY**

## **2003 Annual Meeting**

20-23 November, 2003  
Cambridge, Massachusetts  
Hyatt Regency Hotel

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Cover illustration based on Henri Matisse's *Icarus*

The program for the 2003 meeting of the History of Science Society Conference was designed and desktop published by Michal Meyer using Adobe Photoshop and Quark.

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### Acknowledgements

I would like to thank our indefatigable Program Chairs, Mary Terrall (*University of California, Los Angeles*) and Joan Richards (*Brown University*) for their work in assembling this year's program. Mary and Joan not only had to contend with the usual challenges in creating an appealing conference, they also faced the difficulties that arose from the Executive Office's relocation to Gainesville, Florida. They faced every back-stage stumble with grace and good humor. Local arrangements, and the myriad details demanded by that position, were ably handled by David Kaiser (*MIT*), with assistance from Kris Kipp. I am grateful for their efforts. The staff in the HSS Executive Office – Roger Turner, Michal Meyer, Adrian Morse, and Bill Butchard – juggled the seemingly infinite tasks associated with the meeting, and they have my profound thanks. I would also like to express my gratitude to Karen Rader (chair) and the members of the HSS Committee on Meetings and Programs, whose many discussions about meeting logistics have resulted in a better program.

Robert J. Malone  
HSS Executive Director

# HSS Officers and Program Chairs

## HSS Executive Committee

**John W. Servos**, President  
President  
*Amherst College*

**Michael Sokal**, Vice  
*Worcester Polytechnic Institute*

**Margaret W. Rossiter**, Editor  
*Cornell University*

**Marc Rothenberg**, Treasurer  
*Smithsonian Institution*

**Robert Jay Malone**, Executive Director  
*History of Science Society (ex officio)*

**Margaret Osler**, Secretary  
*University of Calgary*

## HSS Program Chairs

**Mary Terrall**, *UCLA*

**Joan Richards**, *Brown University*

## HSS Council

2003-2005

### 2001-2003

Katharine Park  
*Harvard University*  
Karen Parshall  
*University of Virginia*  
Philip Pauly  
*Rutgers University*  
Margaret Schabas  
*University of British Columbia*  
Robert Westman  
*University of California, San Diego*

### 2002-2004

William B. Ashworth  
*Linda Hall Library of Science*  
Mary Susan Lindee  
*University of Pennsylvania*  
Joan L. Richards  
*Brown University*  
James A. Secord  
*University of Cambridge*  
Michael H. Shank  
*University of Wisconsin*

Angela N.H. Creager  
*Princeton University*  
Bernard V. Lightman  
*York University*  
Lynn K. Nyhart  
*University of Wisconsin*  
Michael A. Osborne  
*University of California, Santa Barbara*  
Jole R. Shackelford  
*University of Minnesota*

# HSS 2003

## Book Exhibit Layout

### **Publisher (Table Location)**

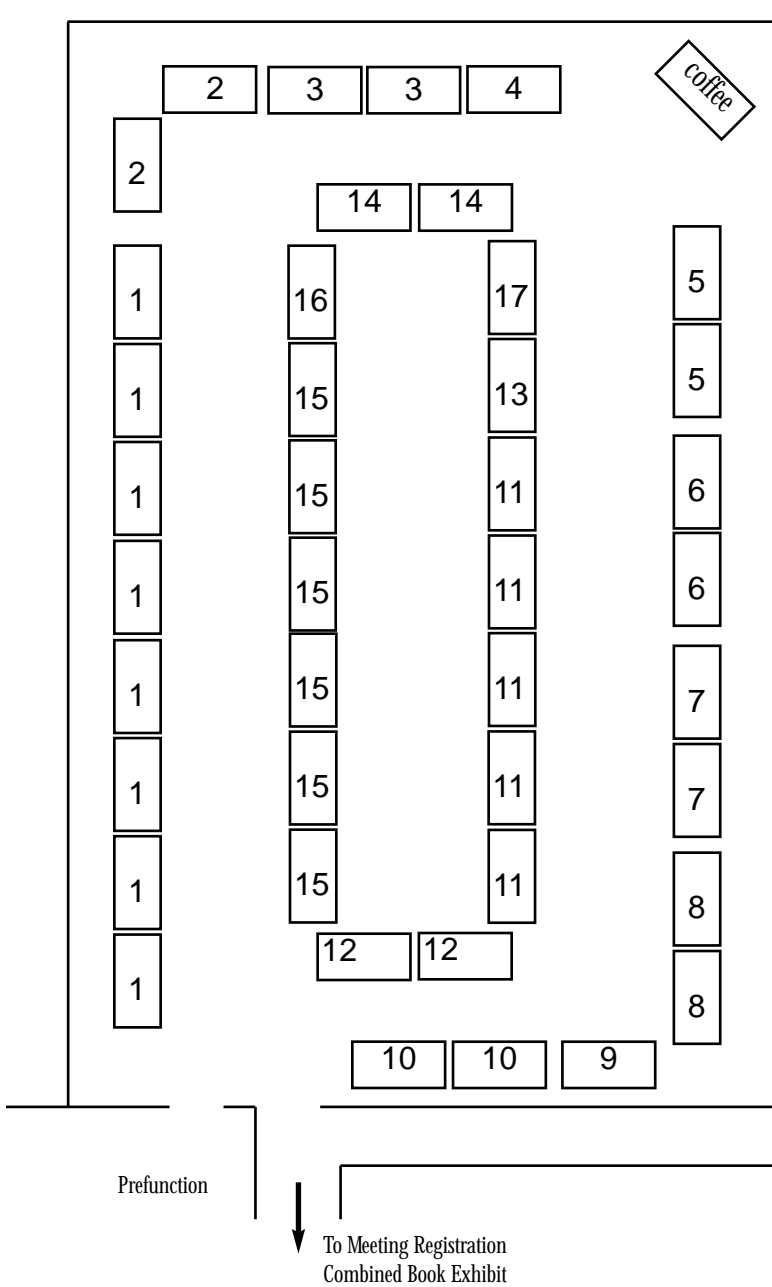
A.K. Peters (16)  
Ashgate Publishing Company (2)  
B&L Rootenburg Rare Books (10)  
Cambridge University Press (15)  
Chemical Heritage Foundation (17)  
Combined Book Exhibit (Courtyard Reception Area)  
Elsevier Science Ltd. (4)  
Green Lion Press (5)  
Johns Hopkins University Press (6)  
Joseph Henry Press (Courtyard Reception Area)  
Kluwer Academic Publishers (Courtyard Reception Area)  
National Academies Press (Courtyard Reception Area)  
Perseus Books Group (13)  
Rutgers University Press (7)  
RLG (9)  
Routledge (8)  
Taylor & Francis (3)  
The MIT Press (14)  
The Scholar's Choice (11)  
University of Chicago (1)  
Watson Publishing International (12)

### **Exhibit Hours**

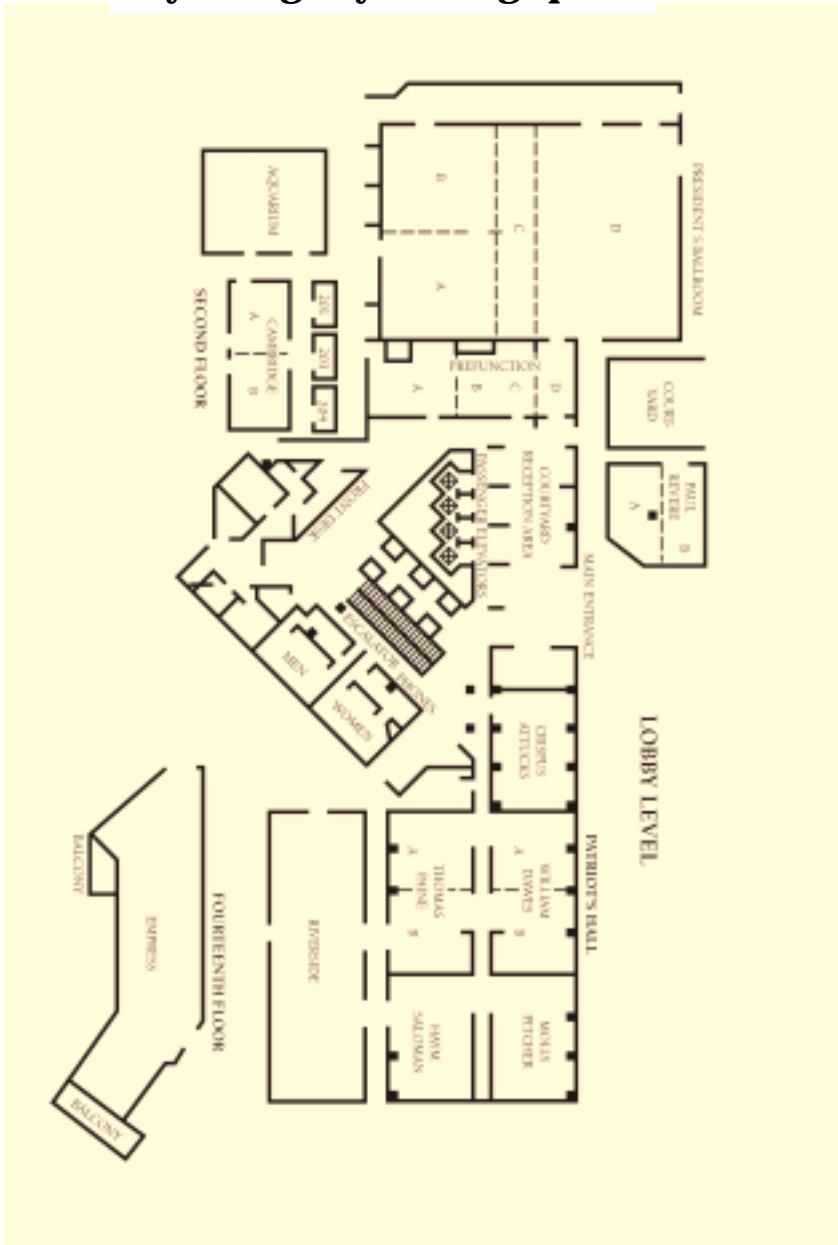
Friday, 21 November	8:00 a.m. - 5:00 p.m.
Saturday, 22 November	8:00 a.m. - 5:00 p.m.
Sunday, 23 November	8:00 a.m. - 12:00 p.m.

Note: Tables, chairs, coffee, and tea will be provided near the exhibit area for informal meetings and relaxation between sessions. Please direct all questions regarding the display to Bill Butchard, Exhibit Coordinator.

# President's Ballroom D



# Hyatt Regency Meeting Space



# HSS Restaurant Guide 2003

By David Kaiser, with help from Kris Kipp and the graduate students in the History and Social Studies of Science and Technology program at MIT.

Boston is a great food town, and many people might enjoy exploring the downtown area or Boston's famous North End (akin to a 'Little Italy') sections for dinner. Cambridge has its share of eateries, too, in all shapes, sizes, styles, and price ranges. The conference hotel is closest to Kendall Square; both Central Square and Harvard Square are also easily accessible by subway (all on the red line, same as Kendall Square) or by a cheap taxi ride. (Cabs from the conference hotel to Harvard Square should be less than \$8. Weather permitting, Central Square would also be walkable in roughly 15 minutes from the conference hotel.) Here are some options to consider in Cambridge.



## **Price key**

\$ = \$5-10

\$\$ = \$11-17

\$\$\$ = \$18-30

(These are approximate values only)

## **Kendall Square**

**The Blue Room** (contemporary), One Kendall Sq., Cambridge, 617-494-9034, Price: \$\$\$.

**B-Side Lounge** (American, contemporary), 92 Hampshire St., Cambridge, 617-354-0766, Price: \$\$.

**Emma's Pizza** (American, upscale pizza), 40 Hampshire St., Cambridge, 617-864-8534, Price: \$\$.

**K-2 Café** (pizza, salads), 290 Main St., Cambridge, 617-583-7000, Price: \$.

**Legal Sea Foods** (seafood), 5 Cambridge Center, Cambridge, 617-864-3400, Price: \$\$\$.

## **Between Kendall and Inman/Central Squares**

**Amelia's Trattoria** (Italian), 111 Harvard, St., Cambridge, 617-868-7600, Price: \$\$\$.

**Atasca** (Portuguese, tapas), 279-A Broadway, Cambridge, 617-354-4355, Price: \$\$ (2<sup>nd</sup> location, upscale version of the original restaurant: 50 Hampshire St., Cambridge, 617-621-6991, Price: \$\$\$.)

**Cuchi Cuchi** (gourmet bar food, Spanish, tapas), 795 Main St., Cambridge, 617-864-2929, Price: \$\$\$.

## **Central Square**

**Barak Café** (French, Mediterranean, Tunisian), 80 Pearl St., Cambridge, 617-868-3951, Price: \$\$.

**Central Kitchen** (bistro, Mediterranean), 567 Mass. Ave., Cambridge, 617-491-5599, Price: \$\$.

**Desi Dhara** (gourmet Indian), 401 Mass. Ave., Cambridge, 617-547-4121, Price: \$.

**La Groceria** (Italian), 853 Main St., Cambridge, 617-497-4214, Price: \$\$.

**Middle East** (Lebanese, Middle Eastern), 472 Mass. Ave., Cambridge, 617-354-8238, Price: \$.

**Miracle of Science** (bar, hamburgers, neighborhood pub), 321 Mass. Ave., Cambridge, 617-868-2866, Price: \$.

**Rangzen Tibetan** (Tibetan), 24 Pearl St., Cambridge, 617-354-8881, Price: \$.

## Harvard Square

**Bangkok House** (Thai), 50 JFK St., Cambridge, 617-547-6666, Price: \$.

**Bartley's Burger Cottage** (American, hamburgers), 1246 Mass. Ave., Cambridge, 617-354-6559, Price: \$.

**Bombay Club** (Indian), 57 JFK St., Cambridge, 617-661-8100, Price: \$\$.

**Border Café** (Mexican), 32 Church St., Cambridge, 617-868-8161, Price: \$.

**Casablanca** (African, Mediterranean), 40 Brattle St., Cambridge, 617-876-0999, Price: \$\$.

**Casa Mexico** (Mexican), 75 Winthrop St., Cambridge, 617-491-4552, Price: \$\$.

**Fire & Ice** (American, Chinese), 50 Church St., Cambridge, 617-547-9007, Price: \$\$.

**John Harvard's Brew House** (English-style pub), 33 Dunster St., Cambridge, 617-868-3585, Price: \$\$.

**Pho Pasteur** (Vietnamese), 35 Dunster St., Cambridge, 617-864-4100, Price: \$.

**Redline** (American, bar, bistro), 59 JFK St., Cambridge, 617-491-9851, Price: \$\$.

**Sandrine's Bistro** (bistro, French, German), 8 Holyoke St., Cambridge, 617-497-5300, Price: \$\$\$.

**Veggie Planet** (pizza, vegetarian), 1680 Mass. Ave., Cambridge, 617-661-1513, Price: not available

## Other Suggestions

**Elephant Walk** (Cambodian and French), 2067 Mass. Ave., Cambridge, 617-492-6900, Price: \$\$, Accessible from either Porter or David Squares on the red line.

**Dali** (Mediterranean, Spanish, tapas), 451 Washington St., Somerville (Cambridge/Somerville line between Harvard and Porter Squares), 617-661-3254, Price: \$\$.

**Helmand** (Afghan), 143 First St., Cambridge, 617-492-4646, Price: \$\$, Near the north end of Memorial Drive by CambridgeSide Galleria Mall.

**Sidney's Grill** (New American), 20 Sidney St. at the University Park Hotel @ MIT, Cambridge, 617-551-0300, Price: \$\$\$.

# HSS Program Summary

## Thursday, 20 November

**1:00 p.m. - 5:00 p.m.**

HSS Council Meeting

Aquarium

**2:00 p.m. - 3:00 p.m.**

Dibner Institute and Burndy Library Tour

Dibner Institute

**4:00 p.m. - 6:00 p.m.**

Local and Global Perspectives in Meteorology

Thomas Paine A

The Places of Science and Science's Place in  
Antebellum America

President's Ballroom B

Revisiting the Experiments in the *Principia*

Crispus Attucks

Mathematics, Improvement of the Mind, and  
Mastery of Nature in Descartes and Leibniz

Thomas Paine B

Subjectivity in Crisis: European Psychiatry and  
Patient Experience (1880-1920)

President's Ballroom A

**7:00 p.m. - 8:30 p.m.**

Reception at the Harvard Museum of Natural History

Harvard Museum of  
Natural History

## Friday, 21 November

**7:30 a.m. - 8:45 a.m.**

*Isis* Advisory Editors Breakfast

Aquarium

Women's Caucus

Molly Pitcher

**9:00 a.m. - 11:45 am (Coffee Break 10:15 - 10:30 Exhibit Hall)**

Saints, Miracles and Sciences

Cambridge

Celestial Divination and Astral Magic: Practice and Acceptance in the West	William Dawes A
Crafting Communities: Alternate Understandings of Modern Scientific Collectives	Crispus Attucks
“Mastering the Past”: The History of the Kaiser Wilhelm Society under National Socialism	Thomas Paine A
The Media of Functions: Modernist Architecture and Modern Science	Haym Saloman
Art and Artefact: Visual Representations in the History of Astronomy	William Dawes B
Natures of Healing	President’s Ballroom B
The Double Helix at 50: History, Memory, and Moral Genealogy	President’s Ballroom A
Science Shaping Service, Service Shaping Science	Thomas Paine B
Artisans and Material Culture in Early Modern Natural Philosophy	Molly Pitcher
<b>12:00 p.m. - 12:30 p.m.</b> Forum for the History of Science in America Business Meeting	President’s Ballroom B
<b>12:00 p.m. - 12:30 p.m.</b> Reception - Center for History of Physics (American Institute of Physics)	Crispus Attucks
<b>12:00 p.m. - 1:15 p.m.</b> DNA at 50 or 60?: History, Memory, and the Persistence of Unresolved Issues. A Discussion Panel	William Dawes A
<b>12:00 p.m. - 1:00 p.m.</b> Dibner Institute and Burndy Library Tour	Dibner Institute

## **Friday, 21 November (continued)**

**12:30 p.m. - 1:15 p.m.**

Forum for the History of Science in America:

Distinguished Historian Lecture

President's Ballroom B

**1:30 p.m. - 3:10 p.m.**

Perspectives on 20th Century Physical Sciences

Haym Saloman

Technologies and Theories of Modern Biology

Crispus Attucks

Space and Place in Early Modern Europe

Molly Pitcher

Science and its Publics

Thomas Paine A

Mind and Matter in the 19th Century

President's Ballroom A

Instruments and Experiments in 19th Century Europe

Cambridge

Politics and Science in the Modern World

Thomas Paine B

Astronomical Thinking from Copernicus to Galileo

President's Ballroom B

**3:10 p.m. - 3:30 p.m.**

Coffee Break

Exhibit Hall

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

Picturing Machines in the Early Modern Era

Crispus Attucks

Excess Baggage: Professionalization Across Borders

William Dawes B

Virtue and Vice

Cambridge

Nobles and Natural Philosophers in Early  
Modern England

President's Ballroom B

What's In a Name? Bringing the Estranged  
Members of the "Mechanics" Family  
Together Again

Haym Saloman

The Eugenic Persuasion?: The Sterilization  
Movement in the United States

President's Ballroom A

Sparkling Life: Radiations and the Vital Quest	Molly Pitcher
Scientific Solutions for Agriculture: Contradictions Between Ideals and Practice in Latin American Development Projects	Thomas Paine A
New Plants and Botany before Linnaeus	Thomas Paine B
Just off the Beaten Path; Integrating Evolution and Development from 1930 to 1970	William Dawes A
<b>5:30 p.m. - 6:30 p.m.</b> Susan Elizabeth Abrams Prize Reception	Aquarium
<b>6:00 p.m. - 7:30 p.m.</b> Reception	Court Yard Reception Area
<b>7:30 p.m. - 9:30 p.m.</b> Research and Teaching: Teaching Research on the Web	Crispus Attucks
<b>9:00 p.m. - 11:00 p.m.</b> Reception Honoring Margaret W. Rossiter	Aquarium

### **Saturday, 22 November**

<b>9:00 a.m. - 11:45 a.m. (Coffee Break 10:15 - 10:30 Exhibit Hall)</b> Science and Religion in Early Modern Europe	President's Ballroom A
Science and Activism, Science as Activism	Thomas Paine A
Seeing and Believing: Theories of Vision, Imagination, and Divination from the Medieval to the Modern	Crispus Attucks
New Trends in the Study of Science and Technology in the European Peripheries (STEP)	Thomas Paine B
The Historical Side of Working Science: Reconstructing Past Instruments, Experiments, and Analyses	Cambridge

**Saturday, 22 November (continued)**

**9:00 a.m. - 11:45 a.m. (continued)**

Science Across Divides: Helmholtz, Haeckel,  
Pearson, and James Confront the Modern  
Self and World

President's Ballroom B

Drug Traffic: Pharmaceuticals and the Moral  
Economy of Scientific Medicine

William Dawes A

Focused in the Field: Redefining the Field Sciences  
in the Early 20th Century

Molly Pitcher

What's Colonial about Colonial Science? Comparative  
Perspectives and Local Specificity, 1770-1850

William Dawes B

Experiment and Authority: Laboratory Practices and  
the Social Place of Alchemy in Seventeenth  
and Eighteenth-Century Europe.

Haym Saloman

**12:00 p.m. - 1:00 p.m.**

Discussion Forum on the Classification Categories  
of the *Lis* Cumulative Bibliography

Cambridge Room

Lives of the Cell: A Dialogue on Things, Theory,  
and Images in Science

Molly Pitcher

**12:00 p.m. - 1:00 p.m.**

Committee on Finance

Boardroom 201

**12:00 p.m. - 1:15 p.m.**

Forum for the History of Human Sciences

Haym Saloman

Race: The Power of an Illusion (Documentary)

Crispus Attucks

**1:30 p.m. - 3:10 p.m.**

Theory and Experiment in 20th Century Physics

William Dawes B

Models and Metaphors in Modern Biology

Cambridge

Perspectives on Early Modern Science	Haym Saloman
Women and Children in the World of Science	Thomas Paine A
Statistical Practice in the Modern World	Crispus Attucks
Geography and Geology in the 19th Century	Thomas Paine B
Science and Local Cultures	William Dawes A
Science and Its Human Subjects	Molly Pitcher
<b>3:10 p.m. - 3:30 p.m.</b> Coffee Break	Exhibit Hall
<b>3:30 p.m. - 5:30 p.m.</b> To the Letter: Epistolary Codes and Transformative Spaces of Nineteenth-Century Scientific Correspondence	Haym Saloman
Jews, Jewishness and the History of 20th Century Psychology	Thomas Paine A
The Organic Metaphor and the Human Sciences	Crispus Attucks
Cultures of Knowledge in the Atlantic World: Iberian, French and British Perspectives	President's Ballroom A
Scientific Management of Productivity: Formalization, Standardization, and Efficiency in the Laboratory, in the Woods, and in the Factory	Thomas Paine B
Race and Medicine in Late-Twentieth-Century America	President's Ballroom B
Res et Verba: Things and Words in the History of Science	William Dawes A
Visual Languages of Gender in Science	Molly Pitcher
Living Museums/Dead Collections	William Dawes B

**Saturday, 22 November (continued)**

**3:30 p.m. - 5:30 p.m. (continued)**

Rethinking Images: Using Photographs as Evidence  
to Write the History of Recent Science Cambridge

**5:00 p.m. - 6:00 p.m.**

Postdoctoral Research and Training Opportunities  
from NSF – The Insider’s Perspective Aquarium

**6:00 p.m. - 7:00 p.m.**

HSS Distinguished Lecture President’s Ballroom A and B

**7:00 p.m. - 8:15 p.m.**

Cash Bar Reception (Courtyard Reception Area)

**8:15 p.m.**

Awards Banquet President’s Ballroom A and B

**11:00 p.m. until 12:30 a.m.**

Graduate Student Party Empress, 14th Floor

**Sunday, 23 November**

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

HSS Business Meeting Crispus Attucks

**9:00 a.m. - 11:45 am (Coffee Break 10:15 - 10:30 Exhibit Hall)**

**Co-Plenary Sessions**

Selves, Subjects, and Identities in the Twentieth-  
Century Human Sciences President’s Ballroom A and B

Science as News: The Press and the Circulation of  
Knowledge from the 17th through the  
19th Centuries

Thomas Paine A and B

## Committee and Interest Group Meetings

### **Thursday, 1:00 p.m. - 5:00 p.m.**

Council Meeting  
(*Aquarium*)

### **Friday, 7:30 a.m. - 8:45 a.m.**

*Isis* Advisory Editors Breakfast  
(*Aquarium*)

Women's Caucus Meeting  
(*Molly Pitcher*)

### **12:00 p.m. - 12:30 p.m.**

Forum for the History of Science in America Business Meeting  
(*President's Ballroom B*)

### **Saturday, 7:30 a.m. - 8:45 a.m.**

Forum for the History of Science in America Steering Committee  
(*Boardroom 203*)

Committee on Meetings and Programs  
(*Spinnaker Restaurant*)

### **8:00 a.m. - 8:45 a.m.**

*Osiris* Editorial Board Meeting  
(*Boardroom 201*)

### **12:00 p.m. - 1:15 p.m.**

Committee on Finance  
(*Boardroom 203*)

Earth and Environment Forum  
(*Thomas Paine A*)

Forum for the History of Human Sciences  
(*Haym Saloman*)

### **12:00 p.m. - 3:00 p.m.**

Committee on Publication  
(*Boardroom 201*)

### **Sunday, 8:00 a.m. - 9:00 a.m.**

HSS Business Meeting  
(Crispus Attucks)

# HSS 2003 Program Schedule

**Thursday, 20 November**

**1:00 p.m. - 5:00 p.m.**

**HSS Council Meeting**

(Aquarium)

**2:00 p.m. - 3:00 p.m.**

**Dibner Institute and Burndy Library Tour**

(Dibner Institute)

(\* denotes session organizers)

**4:00 p.m. - 6:00 p.m.**

**Local and Global Perspectives in Meteorology**

(Tom Paine A)

**James R. Fleming**, *Colby College*, "Localism Meets Globalism: Reductionist and Determinist Themes in the History of Global Climate Studies"

**Katharine Anderson**, *York University*, "Weather Writ Large: The Imperial Scale of British Meteorology"

**Edward Jones-Imhotep**, *University of Guelph*, "Global Metrology/Local Meteorology: Reading the 'Arctic' Ionogram"

**Deborah R. Coen\***, *Harvard University*, "Scaling Down: Mapping the 'Austrian' Climate Between Empire and Republic"

**Chair: Mott Greene**, *University of Puget Sound*

**The Places of Science and Science's Place in Antebellum America**

(President's Ballroom B)

**Paul Lucier**, *Independent Scholar*, "The Science of Coal and the Character of American Geology"

**Julie R. Newell**, *Southern Polytechnic State University*, "Cabinet, Lab, and Field: Where is 'Real' Geology to be Done in Antebellum America?"

**Benjamin R. Cohen\***, *Virginia Tech*, "Books and Farms, So Happy Together (Or, Practicing Chemistry in the Fields of the Early American Republic)"

**David I. Spanagel**, *Harvard University*, "Mapping, Scientific Knowledge, and Borderline Politics"

**Chair: Mary Jo Nye**, *Oregon State University*

**Revisiting the Experiments in the *Principia***  
(Crispus Attucks)

**Domenico Bertoloni Meli**, *Indiana University*, "Experiments in Newton's *Principia*: The First Edition"

**George E. Smith**, *Dibner Institute*, "Newton's Misleading Initial Pendulum Experiment"

**Mary Domski\***, *California State University, Fresno*, "The Cataract and the Fudge Factor: Newton's Strategies for Fitting Theory to Experiment"

**Chair and Commentator: Alan Shapiro**, *University of Minnesota*

**Mathematics, Improvement of the Mind, and Mastery of Nature  
in Descartes and Leibniz**

(Thomas Paine B)

**Dennis Des Chene\***, *Emory and Washington University*, "How the World Became Mathematical"

**Anne Davenport**, *Boston College*, "From 'cogito' to 'excogito' in Meditation V"

**Matthew L. Jones**, *Columbia University*, "Mathematical Formalism, Simplicity and Peace of Mind in Descartes and Leibniz"

**Chair and Commentator: Edith Sylla**, *Dibner Institute*

**Subjectivity in Crisis: European Psychiatry and Patient Experience  
(1880-1920)**

*Session Sponsored by the Forum for the History of Human Sciences*  
(President's Ballroom A)

**Anne Christina Rose**, *Johns Hopkins University*, "'Moral Orthopedics' and the Debate over Suggestibility in Fin-de-Siecle Psychiatry"

**Susan Lanzoni\***, *Boston University*, "The Prominence of Subjective Experience in Phenomenological Psychiatry, 1912-1922"

**David K. Robinson**, *Truman State University*, "Vladimir Bekhterev and the Psychiatric Subject: Early Work in Hypnosis"

**Commentator: Emily Cahan**, *Wheelock College*

**Chair: William Woodward**, *University of New Hampshire*

## **Thursday, 20 November (continued)**

**7:00 p.m. - 8:30 p.m.**

**Reception at the Harvard Museum of Natural History, (*Harvard Museum of Natural History*)**

## **Friday, 21 November**

**7:30 a.m. - 8:45 a.m.**

**Isis Advisory Editors Breakfast**

(Aquarium)

**Women's Caucus**

(Molly Pitcher)

**9:00 a.m. - 11:45 a.m.**

**(Coffee Break 10:15 - 10:30 Exhibit Hall)**

**Saints, Miracles and Sciences**

(Cambridge)

**Katharine Park**, *Harvard University*, "Anatomizing Sanctity: Miraculous Autopsies in Renaissance Italy"

**Peter Harrison**, *Bond University*, "Laws of Nature, Miracles, and Early Modern Religion"

**Fernando Vidal\***, *Max Planck Institute for the History of Science*, "Imagination and Canonization: Prospero Lambertini's Discussion of Miracle Cures"

**Chair and Commentator: Gianna Pomata**, *University of Bologna*

**Celestial Divination and Astral Magic: Practice and Acceptance in the West**

(William Dawes A)

**Francesca Rochberg\***, *University of California, Riverside*, "The Roots of Western Astrology: Ancient Mesopotamian Celestial Omina and Horoscopes"

**Alan C. Bowen**, *IRCPs*, "The Assimilation of Babylonian Celestial Science in Greco-Latin Astronomy of the First Century BC"

**James Evans**, *University of Puget Sound*, “Astrology as Temple Practice”  
**Laura Ackerman Smoller**, *University of Arkansas at Little Rock*,  
“Astrology and the End of the World: The Bleeding Edge of Late Medieval  
Prognostication”  
**Robert David Goulding**, *University of Notre Dame*, “Astrology and Magic  
in the Philosophy of Everard Digby”  
**Chair: Bruce Eastwood**, *University of Kentucky*

### **Crafting Communities: Alternate Understandings of Modern Scientific Collectives**

(Crispus Attucks)

**David P.D. Munns\***, *Drexel University*, “An International, Cooperative  
Vision for Cold War Science: The Formation and Character of the Radio  
Astronomy Community.”  
**Suman Seth**, *Princeton University*, “Instituting an Empire of Theory: Max  
Planck and the Theoretical Physics Community in Germany”  
**Peder Roberts**, *University of New South Wales*, “‘Proving Our Worth to the  
Empire’: The 1911 Australasian Antarctic Expedition and the Australasian  
Scientific Community”  
**Amy Slaton**, *Drexel University*, “Race, Geography, and the Definition of  
Engineering Communities: The University of Maryland 1940-1960”  
**Alistair Sponsel**, *Princeton University*, “School of Empire: The Voyaging  
Naturalists of Joseph Banks’ Network”  
**Chair: Arne Hessenbruch**, *MIT*

### **“Mastering the Past”: The History of the Kaiser Wilhelm Society under National Socialism**

(Thomas Paine A)

**Richard H. Beyler**, *Portland State University*, “‘Free’ Science and Purged  
Scientists: The Kaiser Wilhelm/Max Planck Society 1933 and 1945”  
**Susanne Heim**, *Max Planck Gesellschaft*, “Ostforschung (‘Eastern’  
Research)”  
**Helmut Maier**, *Max Planck Gesellschaft*, “Armaments Research”  
**Sheila Weiss**, *Clarkson University*, “Bio-Medical Research”  
**Commentator: Mark Walker\***, *Union College*  
**Chair: Carola Sachse**, *Max Planck Gesellschaft*

## **Friday, 21 November (continued)**

**9:00 a.m. - 11:45 a.m. (continued)**

### **The Media of Functions: Modernist Architecture and Modern Science**

(Haym Saloman)

**Jimena Canales\*** and **Andrew Herscher**, *Harvard University*, "Ornament and Crime: Modern Architecture, Criminal Anthropology, and Evolutionary Theory"

**Annamarie Adams** and **Thomas Schlich**, *McGill University*, "Symbolizing Scientific Surgery: The Modern Hospital and the Modern Surgeon"

**Peder Anker**, *University of Oslo*, "The Bauhaus of Nature"

**Paula Lee**, *University of South Florida*, "The Social Architect and the Myopic Mason: The Zoological Politics of the Muséum d'Histoire Naturelle in 19th-Century Paris"

**Commentator: Antoine Picon**, *Harvard University*

**Chair: Eve Blau**, *Harvard University*

### **Art and Artefact: Visual Representations in the History of Astronomy**

(William Dawes B)

**Jennifer Downes\***, *University of Cambridge*, "Cosmography and Chorography: The Geographical Tradition and the Telescope"

**Janet Vertesi**, *Cornell University*, "Picturing the Moon: Hevelius' and Riccioli's Visual Debate"

**Vera Keller**, *Princeton University*, "Emblematic Knowledge and the Celestial Sphere"

**John Tresch**, *Northwestern University*, "The Place of the Daguerreotype in the Moral Economy of Instruments: Francois Arago at the Observatoire de Paris."

**Elizabeth Kessler**, *University of Chicago*, "Resolving Nebulae: The Aesthetics of Representing Deep Space"

**Chair: John Tresch**, *Northwestern University*

### **Natures of Healing**

(President's Ballroom B)

**Michael A. Osborne**, *University of California, Santa Barbara*, "Medicine and the Places of Natural History in an Age of Empire: The Paris Faculty"

of Medicine and the Chair of Medical Natural History”

**Helen Tilley**, *Princeton University*, “Tropical Africa and Environments of Disease: Imperial and International Research Priorities, 1880-1940”

**Gregg A. Mitman\***, *University of Wisconsin-Madison*, “Natural History and the Clinic: The Regional Ecology of Allergy in America”

**Gabriela Soto Laveaga**, *Michigan State University*, “The ‘Politics’ of Healing: Local Beliefs and State Agendas in Mexico’s Failed Domestic Pharmaceutical Project (1976-1984)”

**Chair and Commentator: Warwick Anderson**, *University of Wisconsin – Madison*

### **The Double Helix at 50: History, Memory, and Moral Genealogy**

(President’s Ballroom A)

**William C. Summers**, *Yale University*, “Physics, Phage and DNA”

**Lynne Osman Elkin**, *California State University at Hayward*, “Rosalind Franklin and the Double Helix at 50: A Daring Proposal Since Little Has Changed”

**Victor K. McElheny**, *Massachusetts Institute of Technology*, “James Watson at Cold Spring Harbor, 1968-93”

**Soraya de Chadarevian**, *University of Cambridge, UK*, “How the Double Helix Became the Most Important Discovery of the Twentieth Century”

**Commentator: Pnina Abir-Am\***, *Northeastern University*

**Chair: Clark Elliott**, *Harvard University*

### **Science Shaping Service, Service Shaping Science**

(Thomas Paine B)

**Jane Louise Carey**, *University of Melbourne*, “Sex, Race and Kindergartens: Australian Women in the Pursuit of Scientific Social Reform, 1900 – 1940”

**Rima D. Apple**, *University of Wisconsin-Madison*, “Service and Research: The Medical Career of Dr. Dorothy Reed Mendenhall”

**Gwen Kay**, *SUNY Oswego*, “Cleaning House: Sacrificing Science for Service in Home Economics”

**Pamela E. Mack\***, *Clemson University*, “Progressive Reform and Women Engineers”

**Commentator: Nancy Tomes**, *SUNY Stony Brook*

**Chair: Michael Sokal**, *Worcester Polytechnic*

**Friday, 21 November (continued)**

**9:00 a.m. - 11:45 a.m. (continued)**

**Artisans and Material Culture in Early Modern Natural Philosophy**

(Molly Pitcher)

**Deborah Harkness**, *University of California Davis*, “Interview with an Alchemist: Hugh Plat’s Pursuit of Natural Knowledge in Early Modern London”

**Eric Ash**, *Wayne State University*, “Serving the ‘Prince of Purpoole’: Francis Bacon and the Expertise of Natural Philosophy”

**Anna Maerker**, *Cornell University*, “Visible Technicians, Embodied Scientists: Artisanal Practice, Administrative Control, and the Production of Anatomical Models for the Tuscan State”

**Jean Francois Gauvin**, *Harvard University*, “*Volontaires* and Artisans in Descartes’s Early Natural Philosophy”

**Chair and Commentator: Ann Blair\***, *Harvard University*

**12:00 p.m. - 12:30 p.m.**

**Forum for the History of Science in America Business Meeting**

(President’s Ballroom B)

**12:00 p.m. - 12:30 p.m.**

**Reception - Center for History of Physics (American Institute of Physics)**

(Crispus Attucks)

**12:00 p.m. - 1:15 p.m.**

**“DNA at 50 or 60?: History, Memory, and the Persistence of Unresolved Issues.”**

**A Discussion Panel.**

(William Dawes A)

**Panelists: Wally Gilbert**, *Harvard University*; **Paul Doty**, *Harvard University*; **Carolyn Cohen**, *Brandeis University*; **Alexander Rich**, *MIT*

**Organizers: Pnina Abir-Am**, *Northeastern University* and **William Summers**, *Yale University*

**12:00 p.m. - 1:00 p.m.**  
**Dibner Institute and Burndy Library Tour**  
(Dibner Institute)

**12:30 p.m. - 1:15 p.m.**  
**Forum for the History of Science in  
America: Distinguished Historian Lecture**  
**Barbara Rosenkrantz, *Harvard University*,**  
A Boston Marriage: the History of Public  
Health and the History of Science  
(President's Ballroom B)

**1:30 p.m. - 3:10 p.m.**  
**Perspectives on 20th Century Physical Sciences**  
(Haym Saloman)

**Larry Owens, *University of Massachusetts*,** "Silo Memories"  
**Ruben Martinez, *University of Texas, Austin*,** "Plum Pudding and the Folklore  
of Physics"  
**Kevin Francis, *Mt. Angel Seminary*,** "Rethinking the Radiocarbon Revolution"  
**Kent W. Staley, *Saint Louis University*,** "The Pursuit of Experiment by Other  
Means: The Evolution of an Experimental Research Report in High Energy Physics"  
**Chair: Emily P. Thompson, *MIT***

**Technologies and Theories of Modern Biology**  
(Crispus Attucks)

**Kristin Renee Johnson, *Oregon State University*,** "Karl Jordan: Systematics  
and the History of Science"  
**Tobias Cheung, *REHSEIS, Université Paris VII*,** "The 'Mechanisator' and its  
Environment: Functional Order in Jakob von Uexküll's Protoplasmic Theory"  
**Joe November, *Princeton University*,** "'Impossible to Accomplish Otherwise':  
Early Advocacy for the Use of Computers in Biology"  
**Nancy Anderson, *Max Planck Institute for the History of Science*,** "Transitive  
Light and Digital Pictures: Fluorophores and Electronic Imaging in Cell Biology  
During the 1980s"  
**Chair: Frederick B. Davis, *Florida State University***

**Friday, 21 November (continued)**

**1:30 p.m. - 3:10 p.m.**

**Space and Place in Early Modern Europe**

(Molly Pitcher)

**Gabriela Ilitchi**, *Eastman School of Music/University of Rochester*, “‘Rational Irrationality’: Nicole Oresme’s Mathematics of Planetary Motion and Celestial Harmony”

**Fokko Jan Dijksterhuis**, *University of Twente*, “Golden Sections: Cultures of Mathematics in the Dutch Republic in the Middle of the 17th Century”

**Angelo Cattaneo**, *European University Institute*, “Johannes Regiomontanus, Nicolaus Germanus, and Albrecht Dürer as Readers of Ptolemy’s *Geography*. Towards an Analysis of the Links between Map Projections and Perspective in the Renaissance”

**Christine M. Petto**, *Southern Connecticut State University*, “Selling Science: The Promotion and Patronage of Geographical Works in Early Modern Europe”

**Chair: Anita Guerrini**, *University of California, Santa Barbara*

**Science and its Publics**

(Thomas Paine A)

**Petra van der Heijden**, *Leiden Observatory*, “Educating the General Public: Frederik Kaiser (1808-1872) and the Popularization of Astronomy and the Natural Sciences in the Netherlands”

**Craig Sean McConnell**, *California State University, Fullerton*, “Mother Earth and Daughter Moon: George Darwin’s Lunar Genesis Theory and the Dynamics of Popularization”

**Aileen Fyfe**, *National University of Ireland, Galway*, “Media Technology: Steam-printing and Popular Publishing in the Mid-Nineteenth Century”

**Elizabeth Hayes**, *University of Notre Dame*, “Science, Politics, and Satire: Re-considering the American Philosophical Society in its Political Contexts, 1775 – 1800.”

**Chair: Hamilton Cravens**, *Iowa State University*

**Mind and Matter in the 19th Century**

(President’s Ballroom A)

**Bernardo Jefferson Oliveira**, *Universidade Federal de Minas Gerais, Brazil*

“Nineteenth-Century Utopias and the Social Imagery of Science”

**Courtenay Jane Raia**, *UCLA*, “Ether Theories and Ether Theology: Oliver Lodge and the Physics of Immortality”

**Richard Noakes**, *University of Cambridge*, “Measuring Mediums: Instruments, Delicacy, and Control in Victorian Physical and Psychical Sciences”

**Tara Abraham**, *Max Planck Institute for the History of Science*, “Digital or Analog? On the Nature of Neural Activity, 1914-1950”

**Chair: Joan L. Richards**, *Brown University*

### **Instruments and Experiments in 19th Century Europe**

(Cambridge)

**Jutta Schickore**, *University of Cambridge*, “‘Some Half-Taught Booby Bragging of the Goodness of a Microscope’: The Introduction of Test Objects into Microscopy, 1820-1835”

**David Alexander Pantalony**, *Dibner Institute*, “The Combination-Tone Controversy and the Quest for Pure, Precise Tuning Forks”

**Dana Simmons**, *University of Chicago*, “Excrement and Consumption in the 19th-Century Chemistry Labs of Dumas and Boussingault”

**Chair: Myles Jackson**, *Dibner Institute*

### **Politics and Science in the Modern World**

( Thomas Paine B)

**Dong-Won Kim**, *Korea Advanced Institute of Science and Technology*, “How Did a Wrong Ideology Destroy a Healthy Physics Community?: Physics in North Korea between 1953 and 1980”

**John P. DiMoia**, *Princeton University*, “‘In Due Course’: The Mobilization of ‘Science’ and ‘Democracy’ under the United States Army Military Government in Korea (1945-1948)”

**Gennady Gorelik**, *Boston University*, “The Best Defense, or the Worst One? Physics and Politics in the History of Russian ABM Program”

**Darrin Durant**, *University of Toronto*, “Big Science and Public Participation: A Basic Tension?”

**Chair: Zuoyue Wang**, *California State Polytechnic University*

## **Friday, 21 November (continued)**

**1:30 p.m. - 3:10 p.m.**

### **Astronomical Thinking from Copernicus to Galileo**

(President's Ballroom B)

**Maurice A. Finocchiaro**, *University of Nevada-Las Vegas*, "Retrying Galileo, 1633-1992: Science vs. Religion, or Cultural Myth vs. Historical Fact?"

**William R. Shea**, *University of Padua*, "Galileo's Roman Agenda"

**Cindy Lammens**, *Ghent University*, "Gemma Frisius' Critical Reading of Copernicus' *De revolutionibus*. Argumentation and Truth Enhanced by Observations and Demonstrations."

**Keith Hutchison and Neil Thomason**, *University of Melbourne*, "Did Tycho Brahe Suffer from a Cognitive Illusion?"

**Chair: Robert Westman**, *University of California, San Diego*

**3:10 p.m. - 3:30 p.m.**

### **Coffee Break**

(Exhibit Hall)

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

### **Picturing Machines in the Early Modern Era**

(Crispus Attucks)

**Wolfgang Lefèvre**, *Max Planck Institute for the History of Science, Berlin*, "Pictures and Plans: Cognitive Functions of Pictorial Representations in Practical Mechanics - 1400 to 1600"

**David McGee**, *Burndy Library, Dibrner Institute*, "Drawing and Doing: Konrad Kyeser, Mariano Taccola, and the Beginnings of Early Modern Machine Design"

**Michael S. Mahoney\***, *Princeton University*, "Drawing Mechanics: Christiaan Huygens and His Clocks"

**Chair and Commentator: Anthony Grafton**, *Princeton University*

### **Excess Baggage: Professionalization Across Borders**

(William Dawes B)

**Michael D. Gordin**, *Princeton University*, "Running in Circles: Towards a Cultural History of the Professionalization of Russian Chemistry."

**Emily Brock**, *Princeton University*, "Industry, Government, and Academia in the Formation of American Professional Forestry"

**Thomas Stapleford\***, *University of Notre Dame*, “Last of the ‘Practical Statisticians’: Professionalizing the U.S. Bureau of Labor Statistics during the New Deal”

**Chair and Commentator: Kathryn Olesko**, *Georgetown University*

### **Virtue and Vice**

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

(Cambridge)

**Marga Vicedo-Castello**, *Harvard University*, “Primate Love: Mothers, Machines, and Morals”

**Nadine M. Weidman**, *Harvard University*, “The Aggression Instinct: Masculinity and Pop Ethology in 1960s America”

**Abigail Lustig\***, *Max Planck Institute for the History of Science*, “Why Be Nice?”

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

### **Nobles and Natural Philosophers in Early Modern England**

(President’s Ballroom B)

**Stephen Clucas**, *University of London*, “‘Full Satisfaction for your Ease’: Natural Philosophy, Patronage and the Service Ethos in the Northumberland Circle”

**Alexander Marr**, *New College, University of Oxford*, “Learned Benefaction: Scientific Patronage of the Bodleian Library”

**Lisa T. Sarasohn\***, *Oregon State University*, “The Newcastle Circle and the Rejection of the Experimental Program of the Royal Society”

**Chair/Commentator: Bruce Moran**, *University of Nevada*

### **What’s In a Name? Bringing the Estranged Members of the “Mechanics” Family Together Again**

(Haym Saloman)

**Steven Walton**, *Penn State University*, “Daniel Santbech’s Aristotelian Ballistics, or, ‘What was He thinking?!?’”

**W. R. Laird**, *Carleton University*, “Francesco Maurolico’s *Problemata Mechanica* and Renaissance Mechanics”

**Helen Hattab\***, *Wabash College*, “Slings, Pebbles and Eddies: The ‘Humble’ Origins of Descartes’ Celestial Mechanics”

**Peter Dear**, *Cornell University*, “Vortex and Visual ‘Evidence’: Huygens and the Natural Philosophy of Authoritative Demonstration”

**Chair: Sheila Rabin**, *St. Peter’s College*

**Friday, 21 November (continued)**

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

**The Eugenic Persuasion?: The Sterilization Movement in the United States**

(President's Ballroom A)

**Steven Selden**, *University of Maryland*, "Popularizing Eugenical Sterilization Through Texts and Contests in the 1920s: Albert Edward Wiggam and the New Decalogue of Science"

**Christine Manganaro**, *University of Minnesota*, "Eugenicist as Patient Advocate: Therapeutic Sterilization in Washington State"

**Mark Largent\***, *University of Puget Sound*, "The Fix: Sterilization as the Solution for Oregon's Woes"

**Chair and Commentator: Garland Allen**, *Washington University*

**Sparking Life: Radiations and the Vital Quest**

(Molly Pitcher)

**Iwan Rhys Morus**, *Queen's University Belfast*, "And Galvanism has Set Some Corpses Grinning"

**Theresa Levitt\***, *University of Mississippi*, "Polarization and the Mystery of Life"

**James E. Strick**, *Franklin and Marshall College*, "'Life Is Too Complex to Be Captured in a Concise Formula': E.J. Allen and Changing Views of the Living in 1898"

**Luis Campos**, *Harvard University*, "The Right Element for the Organism: Radium, 'Radiobes,' and the Origin of Life"

**Chair: Mary Terrall**, *UCLA*

**Scientific Solutions for Agriculture: Contradictions Between Ideals and Practice in Latin American Development Projects**

*Session sponsored by the Earth and Environment Forum*

(Thomas Paine A)

**Eve E. Buckley**, *University of Pennsylvania*, "Development Discourse on a Post-colonial Periphery: Engineering in Northeast Brazil's Drought Zone, 1909-1930."

**Karin E. Matchett\***, *Yale University*, "Scientific Agriculture, Well-fed Citizens, or National Pride: The Competing Environmental and Political Imperatives of Corn Improvement in Mexico"

**Stuart McCook**, *University of Guelph*, "The Search For a Usable Science: Harvard's

Atkins Garden and Botanical Research in Cuba, 1900-1960”  
**Chair and Commentator: Philip Pauly**, *Rutgers University*

### **New Plants and Botany before Linnaeus**

(Thomas Paine B)

**Siam Bhayro**, *Yale University*, “Syriac Botanical Terminology: The Work of Sergius of Ra’s al-’Ayn”

**Emma Spary**, *Independent Scholar*, “Coffee Grounds: Plant Identification and French Colonial Botany before 1740”

**Vittoria Feola**, *Cambridge University*, “‘New’ Plants for Fame, ‘Old’ Plants for Religious Controversy: the Exceptional Case of Elias Ashmole’s Uses of Botany”

**Commentator: Alain Touwaide\***, *Smithsonian Institution*

**Chair: Karen Reeds\***, *National Coalition of Independent Scholars*

### **Just Off the Beaten Path; Integrating Evolution and Development from 1930 to 1970**

(William Dawes A)

**Alan Love**, *Indiana University and University of Pittsburgh*, “N. J. Berrill and the Evolutionary Developmental Biology of Ascidians”

**Nathaniel Comfort**, *George Washington University*, “Barbara McClintock’s Evolutionary Developmental Genetics”

**Manfred Laubichler\***, *Arizona State University*, “The Machinery of the Genes: Alfred Kühn’s Physiological Genetics”

**Commentator: Richard Burian**, *Virginia Tech*

**Chair: Jason Robert**, *Dalhousie University*

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

### **Susan Elizabeth Abrams Prize Reception**

(Aquarium)

6:00 p.m. - 7:30 p.m.

**Reception**

(Court Yard Reception Area)

## **Friday, 21 November (continued)**

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

### **Research and Teaching: Teaching Research on the Web**

(Crispus Attucks)

**9:00 p.m. - 11:00 p.m.**

### **Reception Honoring Margaret W. Rossiter**

(Aquarium)

## **Saturday, 22 November**

**9:00 a.m. - 11:45 a.m.**

**(Coffee Break 10:15 - 10:30 Exhibit Hall)**

### **Science and Religion in Early Modern Europe**

(President's Ballroom A)

**Peter Barker**, *University of Oklahoma*, "Astronomy, Providence and the Lutheran Contribution to Science"

**Margaret J. Osler\***, *University of Calgary*, "When Did Gassendi Become A Libertine?"

**David Sepkoski**, *Oberlin College*, "Walter Charleton, Physico-theology, and 17th-Century English Natural Philosophy"

**Jeffrey R. Wigelsworth**, *University of Saskatchewan*, "English Deists as Heretical Newtonians"

**Chair and Commentator: Jole Shackelford**, *University of Minnesota*

### **Seeing and Believing: Theories of Vision, Imagination, and Divination from the Medieval to the Modern**

(Crispus Attucks)

**Claire Fanger**, *Independent Scholar*, "Like a Virgin: the Body and the Cosmos in Late Medieval Theurgic and Catoptromantic Texts"

**Sarah Anne Smith\***, *Indiana University - Bloomington*, "Mirrors on the World, Mirrors of the Mind: Nicole Oresme's Doctrine of Configuration and Theories on Catoptromancy in *De configurationibus*."

**Robert Mathiesen**, *Brown University*, "Through a Glass, Darkly: A Medieval Model of the Cosmos as Reflected in Late Medieval and Early Modern

Scrying Devices and Practices”

**Allison Coudert**, *Arizona State University*, “Religion, Magic, and Science on the Eve of the Enlightenment”

**Mioara Deac**, *University of Notre Dame*, “Looking into the Darkened Window: The ‘Alchemical Eye’ and Psychological Theories of English Christian Spiritualists”

**Chair: Sarah Anne Smith**, *Indiana University-Bloomington*

### **Science and Activism, Science as Activism**

(Thomas Paine A)

**Jessica Wang**, *UCLA*, “The Science of Law in New Deal America: Legal Realism and the Administrative State in the 1930s”

**Michael Egan \*and Maril Hazlett**, *Washington State University, University of Kansas*, “Technological and Ecological Turns: Science and American Environmentalism”

**Peter Kuznick**, *American University*, “Nuclear Threat, Scientific Ethics, and the Roots of Scientists’ Anti-Vietnam War Activism”

**Charles Weiner**, *MIT*, “Social Responsibility in Science From the Bomb to Cloning”

**Chair and Commentator: Amy Crumpton**, *AAAS*

### **New Trends in the Study of Science and Technology in the European Peripheries (STEP)**

(Thomas Paine B)

**Ana Simões\***, **Maria Paula Diogo** and **Ana Carneiro**, *University of Lisbon*, “Scientific Travels: A Step Towards a Geography of Science in Europe”

**Antonio García Belmar** and **José-Ramón Bertomeu-Sánchez**, *University of Alicante*, “Scientific and Technological Textbooks in the European Periphery”

**Fernando Reis**, *New University of Lisbon*, “The Popularisation of Science in Periodicals of Portuguese Liberal Emigrés, 1808-1822”

**Manolis Patiniotis**, *University of Athens*, “From Physis to Cosmos: A Step Towards the Geography of Nature”

**Commentator: Mathew Eddy**, *Dibner Institute*

**Chair: Ana Simões**, *University of Lisbon*

**Saturday, 22 November (continued)**

**9:00 a.m. - 11:45 a.m. (continued)**

**The Historical Side of Working Science: Reconstructing Past  
Instruments, Experiments, and Analyses**

(Cambridge)

**Peter Heering**, *Institute of Physics, Carl-von-Ossietzky Universität Oldenburg*, “Regular Twists: Redoing Coulomb’s Experiments on the Torsion of Metal Wires”

**Elizabeth Mary Cavicchi\***, *Dibner Institute*, “Finding the Body in the Circuit: Historical and Reconstructive Experiments with a Spiraled Conductor”

**Ryan D. Tweney**, *Bowling Green State University*, “Reconstructing Research Programs: Faraday and the Colors of Gold”

**Christian Sichau**, *Deutsches Museum Munich*, “Storming a Citadel: The Mathematics of Measurement and its Reconstruction”

**Chair and Commentator: Lawrence Principe**, *Johns Hopkins University*

**Science Across Divides: Helmholtz, Haeckel, Pearson, and James  
Confront the Modern Self and World**

(President’s Ballroom B)

**David Cahan\***, *University of Nebraska*, “Science above Politics?: Helmholtz on the French and the French on Helmholtz”

**Robert J. Richards**, *University of Chicago*, “The Battle over Evolution in Germany: Ernst Haeckel’s Struggles with the Religious Right and the Political Left”

**Theodore M. Porter**, *UCLA*, “Karl Pearson Defends Individuality in Science”

**Francesca Bordogna**, *Northwestern University*, “Disciplinarity and its Values: William James’s 1906 Address on ‘The Energies of Men’”

**Chair and Commentator: Lynn Nyhart**, *University of Wisconsin-Madison*

**Drug Traffic: Pharmaceuticals and the Moral Economy of Scientific  
Medicine**

*Session sponsored by the American Association for the History of Medicine*  
(William Dawes A)

**Nicolas Rasmussen**, *University of New South Wales*, “The Moral Economy of the Commercial Drug Trial in Interwar America”

**Arthur Daemmrich**, *Chemical Heritage Foundation*, “Cross-Cultural

Technology Transfer: From the Laboratory to Mass Production in the Early Antibiotic Era”

**Jeremy A. Greene\***, *Harvard University*, “Behind the Miracle Drugs: Marketing and the Postwar Pharmaceutical”

**Abena Osseo-Asare**, *Harvard University*, “‘No Time to Dance’: Herbal Research in Post-colonial Ghana”

**Commentator: Harry Marks**, *Johns Hopkins University*

**Chair: Elizabeth Watkins**, *Carnegie-Mellon University*

### **Focused in the Field: Redefining the Field Sciences in the Early 20th Century**

(Molly Pitcher)

**Juliet Burba**, *University of Minnesota-Twin Cities*, “Reconstructing the ‘Actual History of Mankind’: Franz Boas and Native American Origins Research”

**Alex Checkovich**, *University of Pennsylvania*, “Mapping as Land Use: Geographical Knowledge and the Development of the United States, 1900-1933”

**Georgina Mary Hoptroff**, *University of Minnesota*, “Place, Practice, and Primatology: Clarence Ray Carpenter’s Early Field Studies, 1931-1950”

**Juan Herbaig\***, *Independent Scholar*, “A Time for Place, a Place for Time: Continuity and Change in American Field Zoology c. 1900.”

**Chair and Commentator: Jane Camerini**, *University of Wisconsin*

### **What’s Colonial About Colonial Science? Comparative Perspectives and Local Specificity, 1770-1850**

(William Dawes B)

**Michele Thompson**, *Southern Connecticut State University*, “Jean Marie Despiau: French Physician in the Royal Medical Service of the Nguyen Dynasty”

**Jane H. Murphy**, *Princeton University*, “‘Despite the All Too Real Disasters’: The Practice of Science in French-occupied Egypt, 1798-1801”

**Elizabeth Green Musselman**, *Southwestern University*, “Worlds Away: European and African Ideas about Celestial Objects in the Cape Colony”

**Daniela Bleichmar\***, *Princeton University*, “Viewing as Possessing: The Visual Culture of Natural History and the Locality of Colonial Science, 1750-1800”

**Chair and Commentator: Michael Osborne**, *University of California, Santa Barbara*

**Saturday, 22 November (continued)**

**9:00 a.m. - 11:45 a.m. (continued)**

**Experiment and Authority: Laboratory Practices and the Social Place  
of Alchemy in Seventeenth and Eighteenth-Century Europe**

Haym Saloman

**Craig Martin**, *University of Oklahoma*, "Alchemy and the Legitimization of Aristotelian Science in Early Modern Italy"

**Margaret D. Garber\***, *California State University, Fullerton*, "Experimental Truths and Social Consequences in Late Seventeenth-Century Alchemy"

**Kevin Chang**, *Academia Sinica*, "Legitimacy and Social Order: Johann Franz Buddeus' Dissertation on Toleration and Alchemy"

**Andrew W. Sparling**, *Duke University*, "Putrefaction in the Laboratory: How an Eighteenth-Century Experimentalist Refashioned Herself as an Homme des Lettres"

**Chair and Commentator: John Powers**, *Cornell University*

**12:00 p.m. - 1:00 p.m.**

**Discussion Forum on the Classification Categories of the *Isis*  
Cumulative Bibliography - led by Stephen Weldon**

(Cambridge Room)

**12:00 p.m. - 1:00 p.m.**

**Lives of the Cell: A Dialogue on Things, Theory,  
and Images in Science**

(Molly Pitcher)

Organized by Andrew Mendelsohn

Cast: Lorraine Daston, Stephen Jacyna, Manfred  
Laubichler, Andrew Mendelsohn, Joan L. Richards

**12:00 p.m. - 1:15 p.m.**

**Forum for the History of Human Sciences**

(Haym Saloman)

**Earth and Environment Forum**

(Thomas Paine A)

**12:00 p.m. - 1:15 p.m.**

**“Race: The Power of an Illusion” (Film presented by Evelyn  
Hammonds)**

(Crispus Attucks)

**12:00 p.m. - 1:00 p.m.**

**Committee on Finance**

*Boardroom 203*

**1:30 p.m. - 3:10 p.m.**

**Theory and Experiment in 20th Century Physics**

(William Dawes B)

**Paul Halpern**, *University of the Sciences in Philadelphia*, “Nordstrom in Ehrenfest’s Garden: The Hidden Prequel to Kaluza-Klein Theory”

**Chen-Pang Yeang**, *MIT*, “A Natural Phenomenon or an Instrumental Artifact? The Case of Quasi-Elastic Force”

**Daniela Monaldi**, *University of Toronto*, “The Fate of the Mesotron”

**Jeremiah James**, *Harvard University*, “Theories of X-ray Crystallography”

**Chair: Sungook Hong**, *Seoul National University*

**Models and Metaphors in Modern Biology**

(Cambridge)

**Otniel E. Dror**, *The Hebrew University of Jerusalem*, “‘Voodoo Death’: Fantasy, Excitement, and the Untenable Boundaries of Science”

**Ian Nyberg**, *University of Texas at Austin*, “The History of *Xenopus laevis* as a Model Organism: Pragmatics vs. Representation”

**Andrew Stuart Reynolds**, *University College of Cape Breton*, “The Metaphor of the Cell State in Late Nineteenth and Early Twentieth Century British Biology”

**Gregory J. Morgan**, *Johns Hopkins University*, “How to Build a Virus: The Beginnings of Structural Virology”

**Chair: Everett Mendelsohn**, *Harvard University*

## **Saturday, 21 November (continued)**

**1:30 p.m. - 3:10 p.m. (continued)**

### **Perspectives on Early Modern Science**

(Haym Saloman)

**Katherine Tredwell**, *University of Oklahoma*, “Astronomy Translations in Tudor England”

**Darin Hayton**, *University of Notre Dame*, “Astrolabes and Power in Renaissance Germany: Andreas Stiborius’s ‘Clipeus Austrie’”

**Hanna Rose Shell**, *Harvard University*, “Casting Life: Bernard Palissy’s Renaissance Occupation between Maker and Nature”

**Noga Arikha**, *Bard College*, “Humours and Passions in Early Modern Europe”

**Chair: Lauren Kassell**, *Institute for Advanced Study, Princeton*

### **Women and Children in the World of Science**

(Thomas Paine A)

**Eric D. Kupferberg** *MIT and Harvard University*, “Alice C. Evans and the Link Between Contagious Abortion and Undulant Fever: An Inversion of Bacteriological Discovery”

**Catherine Nisbett**, *Princeton University*, “Thanks for the Check: Women, Money and Labor at the Harvard College Observatory”

**Maria Rentetzi and Jody Roberts**, *Max Planck Institute for the History of Science/Virginia Tech*, “Selling Science, Constructing Gender: The Role of Chemical Instrument Advertisements in the Construction of Gender in the Laboratory”

**Cornelia Campbell Lambert**, *University of South Carolina – Aiken*, “Bee is for Benevolence: Natural Theology in Nineteenth Century British Insect Science Texts for Children”

**Chair: Michael Lynn**, *Agnes Scott College*

### **Statistical Practice in the Modern World**

(Crispus Attucks)

**Ida H. Stamhuis**, *Free University Amsterdam*, “The Fruitfulness of a National Study of Development of Knowledge and the Stubbornness of Various Ways of Statistics”

**Gabriel K. Wolfenstein**, *UCLA*, “Statistics of Empire, Empire of Statistics: The British Imperial Census, 1881-1901”

**Barbara Finan**, *University of New Hampshire*, “A Case Study in Nineteenth-Century Statistics: The Lowell Mill Girls in 1845”

**Nancy S. Hall**, *University of Delaware*, “R. A. Fisher and Randomized Experimental Design”

**Chair: Margaret Schabas**, *University of British Columbia*

## Geography and Geology in the 19th Century

(Thomas Paine B)

**Charles Withers**, *University of Edinburgh*, “Mapping the Niger, 1798-1832: Travel, Trust and Testimony in Late Enlightenment Geographical Enquiry”

**A. Bowdoin Van Riper**, *Southern Polytechnic State University*, “The Last Catastrophist: Joseph Prestwich and the Submergence of Western Europe, 1890-1895”

**Brian C. Shipley**, *Dalhousie University*, “From Field to Fact: Surveyors’ Experience, Geological Mapping, and the Production of Environmental Knowledge in the Victorian British Empire”

**William Joseph Turkel**, *MIT*, “A Property Rights Approach to the Practice of Geological Surveying in British Columbia”

**Chair: Michael Reidy**, *Montana State University*

## Science and Local Cultures

(William Dawes A)

**Frans van Lunteren**, *Utrecht University and Vrije Universiteit Amsterdam*, “Dutch Physicists and Causality Before, During, and After World War I”

**Elisabeth van Meer**, *University of Minnesota*, “From Individualism to Socialism via Technocracy: The Americanization Debate in Czechoslovakia (1918-1948)”

**Ab Flipse**, *Vrije Universiteit Amsterdam*, “The Founding of a Science Department at a Calvinistic University in the Netherlands (1930)”

**Darwin H. Stapleton and Donna Stapleton**, *Rockefeller Archive Center and City Schools of New Rochelle*, “Little Science? The Paradoxes of Research and Education in the Sciences at Swarthmore College, 1935-1965”

**Chair: Ernst Hamm**, *York University*

**Saturday, 21 November (continued)**

**1:30 p.m. - 3:10 p.m. (continued)**

**Science and Its Human Subjects**

(Molly Pitcher)

**Sarah Whitney Tracy**, *University of Oklahoma*, "Days of Recurring Desires: Inebriety and Alcoholism in Patient Narratives, 1890-1920"

**Soren Bak-Jensen**, *University of Copenhagen*, "The Patient as Scientist: Chiropractors and the Production of Medical Knowledge in Interwar Denmark"

**Abha Sur**, *MIT*, "Ever Since Orientalism: Implications of Graded Hierarchies of Race for Postcolonial Histories of Science"

**Chair: Evelyn Hammonds**, *Harvard University*

**3:10 p.m. - 3:30 p.m.**

**Coffee Break**

(Exhibit Room)

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

**To the Letter: Epistolary Codes and Transformative Spaces of  
Nineteenth-Century Scientific Correspondence**

(Haym Saloman)

**Paul White\***, *University of Cambridge*, "Letters and the Scientific Life in the Age of Professionalization"

**Rebecca Stott**, *Anglia Polytechnic University*, "The Speculative Poetics of Evolution"

**Susan D. Bernstein**, *University of Wisconsin-Madison*, "'The Mystery of Their Alteration in Form': Lydia Becker's Letters to Darwin"

**Chair and Commentator: Anne Secord**, *University of Cambridge*

**Jews, Jewishness and the History of 20th Century Psychology**

(Thomas Paine A)

**Nicole B. Barenbaum**, *University of the South*, "An Identity of Difference: A. A. Roback's Jewish Hereditarianism"

**Andrew S. Winston**, *University of Guelph*, "Good Jews, Bad Jews, Dangerous Jews: Anti-Semitism and the Hiring of Psychologists, 1925 - 1955"

**Ian Nicholson**, *St. Thomas University*, “‘A Characterological War’: Abraham Maslow, Self-Actualization & Anti-Semitism”

**Commentator: Andrew Heinze**, *University of San Francisco*

**Chair: Ben Harris\***, *University of New Hampshire*

### **The Organic Metaphor and the Human Sciences**

(Crispus Attucks)

**Michael C. Carhart**, *University of Nevada*, “Culture and the Rejection of the Organic Metaphor in the 1780s”

**Naomi Beck**, *Université de Paris I and University of Chicago*, “The Appeal of the Organic Metaphor in Spencerism”

**Daniela Barberis\***, *University of Chicago/ Franke Institute*, “A Novel Object for Science: ‘Society’ as Defined by the Organic Metaphor”

**Chair and Commentator: Bruce Mazlish**, *MIT*

### **Cultures of Knowledge in the Atlantic World: Iberian, French and British Perspectives**

(President’s Ballroom A)

**Antonio Barrera**, *Colgate University*, “Knowledge and Nature in the Spanish Atlantic World”

**Nick Dew**, *University of Cambridge*, “The Geography of Precision in the French Atlantic World”

**James Delbourgo\***, *McGill University*, “Creole and Colonial Knowledge in the British Atlantic World”

**Chair and Commentator: Joyce Chaplin**, *Harvard University*

### **Scientific Management of Productivity: Formalization, Standardization, and Efficiency in the Laboratory, in the Woods, and in the Factory**

(Thomas Paine B)

**Andreas Mayer**, *Max Planck Institute for the History of Science*, “‘Rational Shoes’: The Study of Human Locomotion in the Laboratory, the Clinic, and the Military”

**Herbert Mehrtens**, *Technische Universität Braunschweig*, “Engineering Efficiency”

**Sarah Jansen\***, *Harvard University*, “‘Optimum Sustainable Yield’: Concept and Practices of Productivity in German Forestry Science during the late 18th Century”

**Chair and Commentator: Robert Brain**, *Harvard University*

## **Saturday, 21 November (continued)**

**3:30 p.m. - 5:30 p.m. (continued)**

### **Race and Medicine in Late-Twentieth-Century America**

*Session sponsored by the American Association for the History of Medicine*

(President's Ballroom B)

**Ellen Dwyer\***, *Indiana University*, "Race, Neuropsychiatry, and World War II"

**Dennis Doyle**, *SUNY-Stony Brook*, "The Universal Mind Assumption: The Development of a New Racial Formation in Psychiatry, 1946-1958"

**Kirby Randolph**, *Rutgers University*, "Racism: Mental Illness?"

**Naomi Rogers**, *Yale University*, "Science, Medicine and the Ghetto: Anti-Colonialism and American Health Activism in the 1960s"

**Chair: Charles E. Rosenberg**, *Harvard University*

### **Res et Verba: Things and Words in the History of Science**

(William Dawes A)

**Catherine Eagleton**, *University of Cambridge*, "'Chaucer's Own Astrolabe' and the Relationship Between Text, Image and Object"

**Adam Mosley\***, *University of Cambridge*, "Object-Lessons: Instrument-Books and their Uses in the Sixteenth Century"

**Koen Vermeir**, *Leuven University*, "'Magical Instruments' for Visualizing the Invisible: Instruments/Illustrations/Texts"

**Adelheid Voskuhl**, *Cornell University*, "'Bodily Motions Betraying Emotional Involvement': Technical and Textual Production of Music-making Automata in late 18th Century Germany and Switzerland"

**Chair: Adam Mosley**, *University of Cambridge*

### **Visual Languages of Gender in Science**

(Molly Pitcher)

**Ann B. Shteir\***, *York University*, "Iconographies of Flora: The Goddess of Flowers in the Cultural History of Botany"

**Joan Steigerwald**, *York University*, “Figuring Nature, Figuring the (fe)Male: The Frontispiece to Humboldt’s *Ideas Towards a Geography of Plants*”

**Sally Gregory Kohlstedt**, *University of Minnesota*, “Nature by Design: Masculinity on Display in Nineteenth-Century Natural History Museums”

**Jennifer Tucker**, *Wesleyan University*, “Gender and Genre in Scientific Photography, 1850-1900”

**Chair: Bernard Lightman**, *York University*

### **Living Museums/Dead Collections**

(William Dawes B)

**Simon Keith Naylor**, *University of Bristol*, “Regional Science: Nineteenth Century Cornwall as Natural Museum”

**Sam Alberti\***, *University of Manchester*, “Collecting the Dead: Anatomy Museums in Nineteenth-Century Britain”

**Paul A. Elliott**, *Nottingham University*, “Public Arboreta: The ‘Living Museums’ of Victorian Britain”

**Chair and Commentator: John Pickstone**, *University of Manchester*

### **Rethinking Images: Using Photographs as Evidence to Write the History of Recent Science**

(Cambridge)

**Pamela M. Henson\* and Ronald E. Doel**, *Smithsonian Institution, Oregon State University*, “(Re)viewing Recent Science: Using Photographs as Visual Evidence in History of Science Research”

**Rick Dingus**, *Texas Tech University*, “The Problematic View: Reconsidering Nineteenth Century Photographs as Evidence”

**Peter Bacon Hales**, *University of Illinois at Chicago*, “Reconsidering the Evidentiary in Photographs: Lessons from Three Historical Moments in the History of Science”

**Commentator: Urban Wrakberg**, *Royal Swedish Academy of Sciences*

**Chair: Karen Rader**, *Sarah Lawrence College*

**5:00 p.m. - 6:00 p.m.**

**Postdoctoral Research and Training  
Opportunities from NSF – The Insider’s  
Perspective**

**A conversation with Keith Benson, STS  
Program Director, National Science  
Foundation  
(Aquarium)**

**6:00 p.m. - 7:00 p.m.**

**HSS Distinguished Lecture**

**Joan Cadden, *University of California, Davis***  
*(see page 45)*

*(President’s Ballroom A and B)*

**7:00 p.m. - 8:15 p.m.**

**Cash Bar Reception**

*(Courtyard Reception Area)*

**8:15 p.m.**

**Awards Banquet**

*(President’s Ballroom A and B)*

**11:00 p.m. until 12:30 a.m.**

**Graduate Student Party**

*(Courtyard Reception Area)*

**Saturday, 22 November**

**6:00 p.m. – 7:00 p.m.**

**(President's Ballroom A and B)**

**HSS Distinguished Lecture**

**Joan Cadden**, *University of California, Davis*

Introduction by Katharine Park, *Harvard University*

“Find What Wind Serves to Advance an Honest Mind: Phenomena  
and Fashions in the History of Medieval Science”



## Sunday, 23 November

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

### HSS Business Meeting

(Crispus Attucks)

9:00 a.m. - 11:45 a.m.

(Coffee Break 10:15 - 10:30 Exhibit Hall)

### Co-Plenary Sessions

#### Selves, Subjects, and Identities in the Twentieth-Century Human Sciences

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

(President's Ballroom A and B)

**Alison Winter**, *University of Chicago*, "Chemistry of truth and sciences of identity on film 1930-1950"

**Sarah E. Igo**, *University of Pennsylvania*, "Statistics, Selves, and Other Subjects: Kinsey-Era Americans"

**Greg Eghigian**, *Penn State University*, "Socialism and the Sciences of the Deviant Self: The East German Psyche Observed"

**Elizabeth Lumbeck**, *Princeton University*, "Paradoxes of Plenty: The American as Exemplary Narcissist"

**Chair and Commentator: John Carson\***, *University of Michigan*

#### Science as News: The Press and the Circulation of Knowledge from the 17th through the 19th Centuries

(Thomas Paine A and B)

**Thomas Broman\***, *University of Wisconsin - Madison*, "All the *nouvelles* that is fit to print: Pierre Bayle and the retailing of scholarly news in the late 17th century."

**Mi Gyung Kim**, *North Carolina State University*, "News in the Air: Balloons in the Public Sphere"

**James A. Secord**, *University of Cambridge*, "Scientific Discovery as Illustrated News, 1840-1870"

**Joad Raymond**, *University of East Anglia*, "Natural Philosophy and Wonders as News in 17th Century England"

**Chair and Commentator: Adrian Johns**, *University of Chicago*

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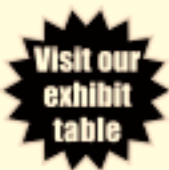
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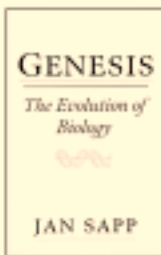


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