

# HSS 2007 Program Overview

Room Number Overview does not include noon-time and evening functions. Please refer to page 16 for these events.

## Rooms

Salon 1 – *First Floor*

Salon 2 – *First Floor*

Salon 3 – *First Floor*

Salon 4 – *First Floor*

Salon 5 – *First Floor*

Salon 6 – *First Floor*

Salon H – *First Floor*

Salon J – *First Floor*

Salon K – *First Floor*

Jackson – *Lobby Level*

Jefferson – *Lobby Level*

Lee – *Lobby Level*

Madison – *Lobby Level*

McLean – *Second Floor*

Arlington Ballroom

(Salon 3 & 4) – *First Floor*

Arlington Foyer – *First Floor*

Thursday, 5:30 p.m. - 7:30 p.m.

## Concurrent Sessions

SALON 1

Co-Plenary: Science & Cinema: Audio-Visual Science Pedagogy and Experiments  
on Film in the Twentieth Century

SALON 2

Co-Plenary: Polar History: Perspectives on Globalization in the Geosciences

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

## Concurrent Sessions

SALON 1

The Silver Anniversary of Women  
Scientists in America, 1

SALON 2

Analysing Microscopes

SALON 5

1968: Science in the Counterculture

SALON 6

Thinking about the History of  
Space Science

SALON H

Problematical History of Aristotle's

SALON J

Science on the Brink

SALON K

Government and the  
Earth Sciences

JACKSON

The Mindful Hand

JEFFERSON

Astrology at the Eve of Modernity

LEE

Epistemic Civilizations

MADISON

Interpreting Quantum Mechanics: A  
Century of Debate



Friday, 1:30 p.m. - 3:10 p.m.

## Concurrent Sessions

**SALON 1**

**Science and Its Publics**

**SALON 2**

**Reconciling Science and Religion**

**SALON 3**

**Revisiting Early Modern Astronomy**

**SALON 5**

**Medicine and Society in the 20th  
Century**

**SALON 6**

**Cloning, Stem Cells, and Expertise in  
Science**

**SALON H**

**Popular Representation of 20th-Cen-  
tury Science**

**SALON J**

**Sputnik**

**SALON K**

**Translation and Communication of  
Knowledge**

**JACKSON**

**Cultures of Natural Knowledge in  
Islam**

**JEFFERSON**

**The Peirces of Boston**

**LEE**

**Science and Place in the 18th and 19th  
Centuries**

**MADISON**

**National Contexts in Science**

HSS Overview Rooms

Friday, 3:30 p.m. - 5:30 p.m.

## Concurrent Sessions

**SALON 1**

**Regionalism in Science and  
Medicine**

**SALON 2**

**The End of Science**

**SALON 3**

**Media and Appropriation**

**SALON 5**

**The Elephant in the Room**

**SALON 6**

**On the Origins of Botanical Gardens**

**SALON H**

**The Uses of New World Nature**

**SALON J**

**The Practical Sciences of Maps and  
Measurement**

**SALON K**

**Critics of Scientific Naturalism**

**JACKSON**

**Laboratories, Fascism and the Land-  
scape**

**JEFFERSON**

**Sketches from the History of Russian  
Ecology, 1830-2000**

**LEE**

**Mathematics in the 17th Century**

**MADISON**

**Archeus in Machina**

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

## Concurrent Sessions

### SALON 1

Environmental Science

### SALON 2

Going Global?

### SALON 3

Reading the Earth's History

### SALON 5

New Advances in the History of Science  
and Medicine

### SALON 6

Mathematical Sciences and Natural  
Philosophy in Antiquity  
and the Middle Ages

### SALON H

Nature's Marketplace

### SALON J

War, Peace and Mathematics

### SALON K

University Teaching and Scholarship  
in 17th-Century Europe

### JACKSON

Exploring the History of Women in  
Science

### JEFFERSON

Material Culture and the Circulation  
of Knowledge

### MADISON

The Birth of Biomechanics

Saturday, 1:30 p.m. - 3:10 p.m.

## Concurrent Sessions

### SALON 1

Drawing Boundaries: Mathematicians,  
Einstein  
and the Unification Project

### SALON 2

Angels and Machines

### SALON 3

Science on Display

### SALON 5

Science in the Cold War

### SALON 6

Pre-Modern Transmission and Trans-  
lation

### SALON H

Eugenics in Theory and Practice

### SALON J

Twentieth-century Psychology and  
Neurology

### SALON K

Radiation in Science and Society

### JACKSON

Twentieth-Century Ecology

### JEFFERSON

Pedagogy and Popularization

### LEE

Biochemistry and Biomedical Re-  
search

### MADISON

Science of Life Insurance, Science of  
Society



Saturday, 3:30 p.m. - 5:30 p.m.

## Concurrent Sessions

### SALON 1

**The Battles of Hearts and Minds**

### SALON 2

**Investigating Laboratory Life: New  
Historiography**

### SALON 5

**Social Science and the Crises of  
American Liberalism**

### SALON 6

**After the Fall**

### SALON H

**Science and Political Economy in the  
Atlantic Empires of  
England and Spain**

### SALON J

**New Perspectives on the Asylum**

### SALON K

**Beyond Einstein**

### JACKSON

**The Laity Takes On Medical  
Expertise**

### LEE

**Artisans and Philosophers in Early  
Modern Europe**

### MADISON

**Medicine, Religion and Society in the  
Islamic World**

HSS  
Overview Rooms

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

## Concurrent Sessions

### SALON 1

**Celebrating the Leonhard Euler Ter-  
centenary**

### SALON 2

**Early Modern Method and Natural  
Philosophy**

### SALON 5

**Physics in the Late Nineteenth and  
Twentieth Centuries**

### SALON 6

**Ways of Seeing in Nineteenth-century  
Life Science**

### SALON 3

**Field Geographies**

### SALON J

**Illuminated Visions**

### SALON K

**Science Education in the Nineteenth-  
century**

### JACKSON

**The Rise of Modern Biological Subspe-  
cialties**

### JEFFERSON

**Immunology, Toxicology,  
Epidemiology**

### LEE

**Origins of the Human Sciences**

### MADISON

**Women's Places in Science**

## Thursday, 1 November

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

**HSS Council Meeting***Salon 5*

5:30 p.m. - 7:30 p.m.

**Co-Plenary: Science & Cinema: Audio-Visual Science Pedagogy and Experiments  
on Film in the Twentieth Century***Salon 1***Co-Plenary: Polar History: Perspectives on Globalization  
in the Geosciences***Salon 2*

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

**Welcome Orientation for First-time Attendees***Salon 5***Opening Reception (Cash Bar)***Salon 4 & Assembly Area*

8:00 p.m. - 10:00 p.m.

**Chemical History Interest Dinner**

Willow Restaurant, 4301 N. Fairfax Drive, Arlington, VA

## Friday, 2 November

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

**Women's Caucus Business Meeting***Salon 1*

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

(Coffee Break, Exhibit Area - 10:00 a.m. - 10:15 a.m.)

**Government and the Earth Sciences***Salon K***Epistemic Civilizations: The Problem of Asia in Contemporary  
Science Studies***Lee***Interpreting Quantum Mechanics: A Century of Debate***Madison***Astrology at the Eve of Modernity***Jefferson***Science on the Brink: Confronting Extinction before  
the Endangered Species Act***Salon J*



<b>The Silver Anniversary of Women Scientists in America, 1 (1982-2007): Reception, Impact, Ramifications for the Future</b>	<i>Salon 1</i>
<b>Analysing Microscopes: Images, Techniques, Procedures</b>	<i>Salon 2</i>
<b>Thinking about the History of Space Science</b>	<i>Salon 6</i>
<b>The Problematical History of Aristotle's "Mechanical Problems"</b>	<i>Salon H</i>
<b>1968: Science in the Counterculture</b>	<i>Salon 5</i>
<b>The Mindful Hand</b>	<i>Jackson</i>
<b>Friday, 12:00 p.m.– 12:30 p.m.</b>	
<b>Business Meeting for the Forum for the History of Science in America</b>	<i>Salon 2</i>
<b>12:00 p.m.– 1:15 p.m.</b>	
<b>Panel Discussion: Scientific Biography: Constructing the Human Element in the Production of Science</b>	<i>Salon 1</i>
<b>Philadelphia Area Center for the History of Science Reception and Information Session</b>	
<b>Babak Ashrafi</b> , director of the new center, will discuss programs, fellowships and other resources. <a href="http://www.pachs.net">http://www.pachs.net</a>	<i>Salon H</i>
<b>Graduate Student and Early Career Caucus Meeting</b>	<i>Salon J</i>
<b>Mathematical Luncheon</b>	<i>Salon 5</i>
<b>12:00 p.m. - 2:00 p.m.</b>	
<b>Nominating Committee Lunch</b>	<i>McLean</i>
<b>12:30 p.m. - 1:15 p.m.</b>	
<b>The American Institute of the History of Pharmacy Presentation of the 2006 AIHP George Urdang Medal to Jole Shackelford for his Book <i>A Philosophical Path for Paracelsian Medicine</i>.</b>	<i>Salon K</i>
<b>Distinguished Scientist Lecture for the Forum for the History of Science in America</b>	
<b>Vera Rubin</b> , <i>Carnegie Institution of Washington</i> "TELESCOPES, GALAXIES, AND WOMEN: A LIFE IN SCIENCE"	<i>Salon 2</i>

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

**Translation and Communication of Knowledge: Practice  
and Theory in Early Modern Europe**

*Salon K*

**Sputnik: A Re-assessment of Its Impact on  
American Science and Society**

*Salon J*

**Science and Its Publics at the American Museum  
of Natural History**

*Salon I*

**Popular Representation of 20th-Century Science**

*Salon H*

**Reconciling Science and Religion**

*Salon 2*

**Medicine and Society in the 20th Century**

*Salon 5*

**Science and Place in the 18th and 19th Centuries**

*Lee*

**Cloning, Stem Cells, and Expertise in Science**

*Salon 6*

**Revisiting Early Modern Astronomy**

*Salon 3*

**Cultures of Natural Knowledge in Islam**

*Jackson*

**The Peirces of Boston: Snapshots of Science in  
19th-Century America**

*Jefferson*

**National Contexts in Science: The Case of Italy**

*Madison*

(Coffee Break, Exhibit Area - 3:10 p.m. - 3:30 p.m.)

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

**Archeus in Machina: That Other Mechanical Philosophy in the  
Seventeenth Century**

*Madison*

**Media and Appropriation**

*Salon 3*

**Regionalism in Science and Medicine in Nineteenth-Century America**

*Salon 1*

**Laboratories, Fascism and the Landscape**

*Jackson*

**On the Origins of Botanical Gardens: Place, Patronage, and Purpose**

*Salon 6*



**The Uses of New World Nature: *Materia medica* and the Circulation of Knowledge  
in the Early Modern Spanish Atlantic World** *Salon H*

**The End of Science** *Salon 2*

**The Elephant in the Room: Finding a Place for the  
NIH in Biomedical History** *Salon 5*

**Sketches from the History of Russian Ecology, 1830-2000 (F36)** *Jefferson*

**Critics of Scientific Naturalism** *Salon K*

**The Practical Sciences of Maps and Measurement: Surveying, Navigation and  
Natural Resources in Britain and the United States, 1750-1860** *Salon J*

**Mathematics in the 17th Century** *Lee*

**Friday, 5:45 p.m. - 6:15 p.m.**  
**Earth and Environment Forum Meeting** *Salon 2*

**6:00 p.m. - 7:30 p.m.**  
**HSS Reception** *Arlington Ballroom & Foyer*

**6:30 p.m. - 7:30 p.m.**  
**Abrams Prize Reception** *Salon K*

**7:00 p.m. - 7:30 p.m.**  
**Bacon Prize Reception** *Salon 2*

**7:00 p.m. - 8:30 p.m.**  
**University Of California Press Reception** *Salon J*

**7:30 p.m. - 8:30 p.m.**  
**NSF Grant Workshop**  
**Fred Kronz and other representatives of the science  
and society programs** *Madison*

7:30 p.m. – 9:30 p.m.

**Cartoon Medicine Show: Rare Animated Cartoons from the Collection of the  
National Library of Medicine**

*Salon 1*

**Teaching the History of “Science in Nonwestern Cultures”**

*Salon H*

9:30 p.m. – 11:00 p.m.

**Graduate Student Party**

*Salon K*

**Saturday, 3 November**

7:30 am - 8:45 am

**Osiris Editorial Board Meeting**

*Mclean*

**Committee on Honors and Prizes/Committee on Education** *Terrace Restaurant*

**Forum for the History of Science in America Steering Committee**

*TBA*

9:00 – 11:45 am

(COFFEE BREAK, EXHIBIT AREA - 10:00 A.M. - 10:15 A.M.)

**New Advances in the History of Science and Medicine in  
Modern China (S1)**

*Salon 5*

**University Teaching and Scholarship in 17th-Century Europe**

*Salon K*

**War, Peace and Mathematics:**

**The Decision Sciences, 1937-1965**

*Salon J*

**Environmental Science as Industrial Research**

*Salon 1*

**Going Global? Migrating Germans and Their Sciences, 1800-1950**

*SALON 2*

**Reading the Earth’s History: Geology, Chronology, and Paleontology,  
1700-1900**

*Salon 3*

**Nature’s Marketplace: Commerce and Natural History in the  
Long Eighteenth Century**

*Salon H*

**The Birth of Biomechanics: Engineering the Body in Modern Austria,  
Germany, and the United States**

*Madison*



<b>Mathematical Sciences and Natural Philosophy in Antiquity and the Middle Ages</b>	<i>Salon 6</i>
<b>Exploring the History of Women in Science</b>	<i>Jackson</i>
<b>Material Culture and the Circulation of Knowledge in the Early Modern Low Countries</b>	<i>JEFFERSON</i>
<b>Saturday, 12:00 p.m.– 12:30 p.m.</b>	
<b>Forum for the History of Human Sciences Business Meeting</b>	<i>Salon 2</i>
<b>12:00 p.m.– 1:15 p.m.</b>	
<b>Working Knowledges Before and After c. 1800: Practices and Disciplines in the History of Science, Technology and Medicine</b>	<i>Salon H</i>
<b>Sources for the History of Science and Medicine – New Perspectives</b>	<i>Salon J</i>
<b>Recalling the “Prehistory” and Early Days of Women Scientists in America, 1: (WSA-1): Who Helped, Who Hindered, Who Stood by, and Where are We Today?</b>	<i>Salon 1</i>
<b>12:30p.m. - 1:15 p.m.</b>	
<b>Forum for the History of Human Sciences Distinguished Lecture</b>	<i>Salon 2</i>
<b>1:30 p.m.- 3:10 p.m.</b>	
<b>Angels and Machines: Theology and Mechanical-Material Cultures in Early Modern Europe</b>	<i>Salon 2</i>
<b>Radiation in Science and Society</b>	<i>Salon K</i>
<b>Biochemistry and Biomedical Research</b>	<i>Lee</i>
<b>Science on Display</b>	<i>Salon 3</i>
<b>Twentieth-Century Ecology</b>	<i>Jackson</i>
<b>Pedagogy and Popularization</b>	<i>Jefferson</i>
<b>Science in the Cold War</b>	<i>Salon 5</i>

<b>Eugenics in Theory and Practice</b>	<i>Salon H</i>
<b>Pre-Modern Transmission and Translation</b>	<i>Salon 6</i>
<b>Twentieth-century Psychology and Neurology</b>	<i>Salon J</i>
<b>Drawing Boundaries: Mathematicians, Einstein and the Unification Project</b>	<i>Salon 1</i>
<b>Science of Life Insurance, Science of Society</b>	<i>Madison</i>
(Coffee Break, Exhibit Area - 3:10 p.m. - 3:30 p.m.)	
<b>Saturday, 3:30 p.m. 5:30 p.m.</b>	
<b>Artisans and Philosophers in Early Modern Europe</b>	<i>Lee</i>
<b>Investigating Laboratory Life: New Historiography</b>	<i>Salon 2</i>
<b>After the Fall: Science and Politics During the Early Years of the Max Planck Society</b>	<i>Salon 6</i>
<b>The Battles of Hearts and Minds: Scientists and the Cold War State</b>	<i>Salon 1</i>
<b>Beyond Einstein: Contextualizing the Theory of Relativity</b>	<i>Salon K</i>
<b>The Laity Takes On Medical Expertise: Contests Over Gender and Health in Postwar America</b>	<i>Jackson</i>
<b>Science and Political Economy in the Atlantic Empires of England and Spain</b>	<i>Salon H</i>
<b>Medicine, Religion and Society in the Islamic World</b>	<i>Madison</i>
<b>New Perspectives on the Asylum, 1800-1990</b>	<i>Salon J</i>
<b>Social Science and the Crises of American Liberalism, 1900-1950</b>	<i>Salon 5</i>
<b>5:30 p.m. - 6:30 p.m.</b>	
<b>Cash Bar Reception</b>	<i>Arlington Foyer</i>



6:30 - 7:30 p.m.

**History of Science Society Distinguished Lecture**

*Theodore M. Porter (University of California, Los Angeles)*

*Salon 3*

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

**Announcement of Society Prizes**

*Salon 3*

8:00 p.m. - 10:00 p.m.

**Society Dinner**

*Salon 5 & 6*

**Sunday, 4 November**

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

**HSS Business Meeting**

*Salon B*

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

(COFFEE BREAK, EXHIBIT AREA - 10:00 A.M. - 10:15 A.M.)

**Field Geographies: Situating Field Sciences in Physical Places  
and Social Spaces**

*Salon 3*

**Celebrating the Leonhard Euler Tercentenary**

*Salon 1*

**Women's Places in Science**

*Madison*

**Early Modern Method and Natural Philosophy**

*Salon 2*

**Physics in the Late Nineteenth and Twentieth Centuries**

*Salon 5*

**Origins of the Human Sciences**

*Lee*

**Ways of Seeing in Nineteenth-century Life Science**

*Salon 6*

**Immunology, Toxicology, Epidemiology**

*Jefferson*

**Science Education in the Nineteenth-century**

*Salon K*

**The Rise of Modern Biological Subspecialties**

*Jackson*

**Illuminated Visions: Artificial Light and Perception in  
Nineteenth-century Britain**

*Salon J*

# HSS 2007 Program Schedule

## Rooms

Salon 1 – *First Floor*

Salon 2 – *First Floor*

Salon 3 – *First Floor*

Salon 4 – *First Floor*

Salon 5 – *First Floor*

Salon 6 – *First Floor*

Salon H – *First Floor*

Salon J – *First Floor*

Salon K – *First Floor*

Jackson – *Lobby Level*

Jefferson – *Lobby Level*

Lee – *Lobby Level*

Madison – *Lobby Level*

McLean – *Second Floor*

Arlington Ballroom

(Salon 3 & 4) – *First Floor*

Arlington Foyer – *First Floor*

*Note: Lobby Level below First Floor*

(\* indicates session organizer)

Note: Session numbers taken from Preliminary Program

## THURSDAY, 1 NOVEMBER

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

### HSS Council Meeting

*Salon 5*

5:30 p.m. - 7:30 p.m.

### CO-PLenary: SCIENCE & CINEMA: AUDIO-VISUAL SCIENCE PEDAGOGY AND EXPERIMENTS ON FILM IN THE TWENTIETH CENTURY

*Salon 1*

**Oliver Gaycken**, *Temple University*, “A Modern Cabinet of Curiosities: George Kleine and the Educational Film”

**Tania Munz**, *Max Planck Institute for the History of Science*, “Lessons from the Hive: Nazi Educational Film and Karl von Frisch’s Portrayal of the Drones”



\***Hanna Rose Shell**, *Society of Fellows, Harvard University*,  
“Chameleonic Cinema: Filming the Science of Strategic Concealment”  
**Nasser Zakariya**, *Harvard University*, “NOVA and the Science of  
History”

Commentator: **Peter Galison**, *Harvard University*

Chair: **Hanna Rose Shell**, *Harvard Society of Fellows*

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CO-PLINARY: POLAR HISTORY: PERSPECTIVES ON GLOBALIZATION IN THE  
GEOSCIENCES

*Salon 2*

**C. Stewart Gillmor**, *Wesleyan University*, “Ecllosion, Synthesis,  
Conjugacy and Symmetry: Lessons from the History of Polar Research”

**Fae Korsmo**, *National Science Foundation*, “Experiments in  
Concert: Advocacy, Agenda Setting and the IGY”

**F. Sherwood Rowland**, *University of California Irvine*,  
“Stratospheric Ozone Depletion, Greenhouse Gases and the IGY”

**Stephen J. Pyne**, *Arizona State University*, “IGY: Announcing a  
Third Great Age of Discovery”

Chair and Commentator: \***James R. Fleming**, *Colby College*

HSS  
Thursday

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

WELCOME ORIENTATION FOR FIRST-TIME ATTENDEES

*Salon 5*

OPENING RECEPTION (CASH BAR)

*Salon 4 and Assembly Area*

Thursday, 8:00 p.m.– 10:00 p.m.

CHEMICAL HISTORY INTEREST DINNER

Willow Restaurant, 4301 N. Fairfax Drive, Arlington, VA

\$40 per person; special \$20 rate for students

For more details and to register for the dinner online, go to <http://www.chemheritage.org>.

## FRIDAY, 2 NOVEMBER

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

## Women's Caucus Business Meeting

*Salon 1* (Graduate students and independent scholars free)

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

(COFFEE BREAK, EXHIBIT AREA - 10:00 A.M. - 10:15 A.M.)

## GOVERNMENT AND THE EARTH SCIENCES

*Salon K***David I. Spanagel**, *Worcester Polytechnic Institute*, "Imperialism, Piracy, and Science Upon the High Seas in the 1700s"**Peter L. Guth**, *U.S. Naval Academy*, "Earth Science Research and the U.S. Military in the Mid 19th Century"**Adrienne Mayor**, *Stanford University*, "Fossils in Native American Lands: Whose Bones, Whose Story?"**Ellen Bales**, *University of California, Berkeley*, "About as Safe as You Make it: Risk, Rhetoric, and Practice in American Uranium Mining, 1950-1970"Commentator: **Naomi Oreskes**, *University of California, San Diego*Chair: \***Kerry Magruder**, *University of Oklahoma*

## EPISTEMIC CIVILIZATIONS: THE PROBLEM OF ASIA IN CONTEMPORARY SCIENCE STUDIES

*Lee***Fa-ti Fan**, *Binghamton University*, "Earthquake Prediction and Mass Politics in Communist China"**Hiromi Mizuno**, *University of Minnesota*, "Scientific Nationalism: In the Case of Wartime Japan"**Alexander Bay**, *Chapman University*, "The Vitamin Revolution in Japan: Beriberi, Chinese Medicine, and the Cultural Construction of Ignorance"\***Thomas S. Mullaney**, *Stanford University*, "The East is Red: The Unification of Time in Communist China"



Chair: **Robert Proctor**, *Stanford University*

INTERPRETING QUANTUM MECHANICS: A CENTURY OF DEBATE

*Madison*

**Joan Bromberg**, *Johns Hopkins University*, “New Instruments and the Meaning of Quantum Mechanics”

\***Olival Freire**, *Universidade Federal da Bahia - Brazil*, “The Birth of the Everettian Heresy”

**Anja Skaar Jacobsen**, *Niels Bohr Archive, Copenhagen*, “Quantum Measurement and Consistency: The ‘Small War’ between Bohr-Rosenfeld and Landau-Peierls in the Early Thirties”

**Michael Stoeltzner**, *University of Wuppertal*, “The Axiomatic Method as a Critical Enterprise and the Quantum Controversy”

Chair & Commentator: **David Kaiser**, *Massachusetts Institute of Technology*

ASTROLOGY AT THE EVE OF MODERNITY

*Jefferson*

**Tayra M.C. Lanuza-Navarro**, *European University Institute*, “Astrology in Early Modern Institutions of Learning in Spain”

**Martin Kjellgren**, *Lund University*, “The Reluctant Dissident: Astrology and Heterodoxy in the Works of Sigfridus Aronus Forsius ca. 1610-1620”

**Friederike Boockmann** (read by **Patrick Boner**), *Bayerische Akademie der Wissenschaften*, “Johannes Kepler’s Horoscope Collection”

\***Patrick J. Boner**, *Bayerische Akademie der Wissenschaften*, “A Scholar and a Statesman: Hans Georg Herwart von Hohenburg as a Critic and Patron of Johannes Kepler”

Chair and Commentator: **Peter Barker**, *University of Oklahoma*

SCIENCE ON THE BRINK: CONFRONTING EXTINCTION BEFORE THE ENDANGERED SPECIES ACT

*Salon J*

**Mark V. Barrow**, *Virginia Tech*, “Creating an Inventory of Extinction: The American Committee for International Wild Life Protection and the First Endangered Species List”

HSS Friday

**\*Peter S. Alagona**, *Harvard University*, “Parks for Plants? Endangered Species, the California Desert, and the National Park Service in the 1930s”

**Mary Anne Andrei**, *University of Virginia*, “‘The Making of a Whale’: Promoting Early Marine Mammal Conservation through Museum Display”

**Kevin Francis**, *Evergreen State College*, “Henry Fairfield Osborn and the Evolutionary Case for Species Preservation”

Chair & Commentator: **Mark Madison**, *U.S. Fish and Wildlife Service*

THE SILVER ANNIVERSARY OF WOMEN SCIENTISTS IN AMERICA, 1 (1982-2007): RECEPTION, IMPACT, RAMIFICATIONS FOR THE FUTURE

*Salon 1*

*Sponsored by the Women's Caucus*

**Ida H. Stamhuis**, *Free University Amsterdam*, “WSA-I and the History of Women Scientists in Europe”

**Susan Lindee**, *University of Pennsylvania*, “Noticing the Unnoticed”

**Rima D. Apple**, *University of Wisconsin-Madison*, “Laboratories and Kitchens: Rediscovering Hidden Sites of Scientific Work”

**\*Pnina Geraldine Abir-Am**, *Brandeis University*, “Collaborative Creativity and Gender in Research Schools: Where are the Women of the Phage Group?”

**Anja Baumhoff**, *Loughborough University*, “Divisions of Labour in Art, Design, and Architecture: the Gendered World of the Bauhaus”

Chair: **Sally Gregory Kohlstedt**, *University of Minnesota*

ANALYSING MICROSCOPES: IMAGES, TECHNIQUES, PROCEDURES

*Salon 2*

**\*Peter Heering**, *Carl-von-Ossietsky Universität Oldenburg*, “The Solar Microscope: Between Education and Entertainment during the Enlightenment”

**Ann F. La Berge**, *Virginia Tech*, “Practicing Microscopy in Mid Nineteenth-Century Paris”

**Jochen Hennig**, *Humboldt University, Berlin*, “The Epistemic Status of Digital Image Processing in Scanning Tunnelling Microscopy”



**Elizabeth Mary Cavicchi**, *Massachusetts Institute of Technology*,  
 “Microscopy as a Collective Act involving Later Observers with  
 Historical Work”

Chair and Commentator: **Jutta Schickore**, *University of Indiana*

THINKING ABOUT THE HISTORY OF SPACE SCIENCE

*Salon 6*

\***Erik M. Conway**, *JPL/Caltech*, “Planetary Science and Global  
 Warming: Thinking about Climate in the Space Agency”

**Christina Turner**, *University of Notre Dame*, “Viewing the Violent  
 Universe: The Development of Gamma-Ray Astronomy”

**Roger D. Launius**, *National Air and Space Museum*, Smithsonian  
 Institution, “Powering Space Exploration: RTGs, Nuclear Reactors,  
 and Outer Planetary Probes”

**Matthew B. Shindell**, *University of California, San Diego*,  
 “Astrogeology in Translation: Constructing Extraterrestrial  
 Frontiers in the Early Years of Planetary Science.”

Commentator: **Andrew Butrica**, *Independent Scholar*

Chair: **Harold Burstyn**, *Independent Scholar*

THE PROBLEMATIC HISTORY OF ARISTOTLE’S “MECHANICAL PROBLEMS”

*Salon H*

**Mark Schiefsky**, *Max Planck Institute for the History of Science*,  
 “The Cognitive Architecture of the Mechanical Problems”

**John Anders**, *University of Pittsburgh*, “Projectile Motion and the  
 Mechanical Problems”

**Matteo Valleriani**, *Max Planck Institute for History of Science*,  
 “The Reception Of Aristotle’s Mechanical Questions Among  
 Renaissance Italian Engineers”

**Helen Hattab**, *University of Houston*, “Scholastic Interpretations  
 of the Mechanical Problems and the Question of Method”

Chair & Commentator: \***Peter McLaughlin**, *University of  
 Heidelberg*

HSS Friday

1968: SCIENCE IN THE COUNTERCULTURE

*Salon 5*

**Rebecca Lemov**, *Harvard University*, “From the Projective Test to the Acid Test: Some Encounters in Social Relations”

\***Peder Anker**, *University of Oslo*, “Science as a Vacation: A History of Ecology in Norway”

**Jimena Canales**, *Harvard University*, “From Lab to Disco: A Short History of the Strobe”

**Matthew H. Wisnioski**, *Washington University in St. Louis/Virginia Tech*, “Scienceteers and Enginists: Blaming and Changing in the 1960s”

Chair and Commentator: **Gary Werskey**, *Educational Partnerships*

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THE MINDFUL HAND

*Jackson*

**Mary J. Henninger-Voss**, *Independent Scholar*, “Cannons and Cannonballs.”

\***Peter Dear**, *Cornell University*, “Making Two Cultures, or, Severing the Hand from the Head”

**William J. Ashworth**, *University of Liverpool*, “‘No Random Walk’: Rationality, Culture, and the British Industrial Revolution”

Commentator: **Michael Dennis**

Chair: **Michael Dennis**, *Independent Scholar*

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Friday, 12:00 p.m.– 12:30 p.m.

BUSINESS MEETING FOR THE FORUM FOR THE HISTORY OF SCIENCE IN AMERICA

*Salon 2*

Friday, 12:00 p.m.– 1:15 p.m.

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PANEL DISCUSSION: SCIENTIFIC BIOGRAPHY: CONSTRUCTING THE HUMAN ELEMENT IN THE PRODUCTION OF SCIENCE

*Salon 1*

**Thomas Söderqvist**, *Medical Museion, University of Copenhagen*, “Beyond Contextualism: The Concrete Individual as a Focus Point”



**James H. Capshew**, *Indiana University*, “Portraits of the Sex Researcher: The Cultural Production of Kinsey”

**Michael M. Sokal**, *Worcester Polytechnic Institute (Emeritus)*, “Psychology as a Biographer’s Tool: Developing Insights into Scientific Careers”

\***Noretta Koertge**, *Indiana University*, “Reflections on the New DSB”  
Chair: **Noretta Koertge**, *Indiana University*

**PHILADELPHIA AREA CENTER FOR HISTORY OF SCIENCE RECEPTION AND INFORMATION SESSION**

*Salon H*

**Babak Ashrafi**, director of the new center, will discuss programs, fellowships and other resources. <http://www.pachs.net>

**GRADUATE STUDENT AND EARLY CAREER CAUCUS MEETING**

*Salon J*

~all graduate student and early careerists welcome ~

**NOMINATING COMMITTEE LUNCH**

*McLean*

**THE AMERICAN INSTITUTE OF THE HISTORY OF PHARMACY PRESENTATION OF THE 2006 AIHP GEORGE URDANG MEDAL TO JOLE SHACKELFORD FOR HIS BOOK A PHILOSOPHICAL PATH FOR PARACELSIAN MEDICINE.**

*Salon K*

Please Join the AIHP in Congratulating Jole on Receiving this Award

**MATHEMATICAL LUNCHEON**

Courtesy of the Legacy of R. L. Moore Project and coordinated by the International Commission on the History of Mathematics. Reserved seating only.

Friday, 12:30 p.m. - 1:15 p.m.

DISTINGUISHED SCIENTIST LECTURE FOR THE FORUM FOR THE HISTORY OF SCIENCE  
IN AMERICA

*Salon 2*

**Vera Rubin**, *Carnegie Institution of Washington*

“Telescopes, Galaxies, and Women: A Life in Science”

Friday, 1:30 p.m. - 3:10 p.m.

TRANSLATION AND COMMUNICATION OF KNOWLEDGE: PRACTICE AND THEORY  
IN EARLY MODERN EUROPE

*Salon K*

\***Annette Henriette Munt**, *Independent Scholar*, “Dutch Cartesian Medical Reformism in German Translation during the Early Enlightenment (1680-1720)”

**Kevin Chang**, *Academia Sinica, Taiwan*, “Languages and Translation of Scientific Knowledge: The Introduction of Medical Dissertations to the Popular Book Market in Early Modern Germany”

**Kasper Risbjerg Eskildsen**, *Roskilde University*, “Entering the World Stage: Philosophy, Art, and Critique of Higher Learning during the Early Enlightenment”

Commentator and Chair: **Harold Cook**, *The Wellcome Trust Centre for the History of Medicine at UCL*

SPUTNIK: A RE-ASSESSMENT OF ITS IMPACT ON AMERICAN SCIENCE AND SOCIETY

*Salon J*

\***Zuoyue Wang**, *California State Polytechnic University, Pomona*, “In Sputnik’s Shadow: American Scientists, Eisenhower, and the Negotiations over Its Meaning”

**Marcel C. LaFollette**, “Sputnik and the Popularization of Science”

**Craig Sean McConnell**, *California State University Fullerton*, “Taken by Surprise: Sputnik and the Measurement of Allopsychic Reorientation in the Space Age”

Chair & Commentator: **Marc Rothenberg**, *National Science Foundation*




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 SCIENCE AND ITS PUBLICS AT THE AMERICAN MUSEUM OF NATURAL HISTORY

*Salon 1*

**Julie Anne Homchick**, *University of Washington*, “Objects and Objectivity: The Contestation over Evolutionary Theory at the American Museum of Natural History, 1915-1928”

**Elizabeth Hanson**, *Yale University*, “Into the Woods: From Forestry to Forests at the American Museum of Natural History”

**Michael Anderson**, *Peabody Museum of Natural History/Yale University*, “Artistic Rigor and Scientific Rigor in James Perry Wilson’s Natural History Dioramas”

**Michael Rossi**, *Massachusetts Institute of Technology*, “Corpus: Porpoise or, Cetaceans and the American Museum, 1907 - 1969”

Chair: **Paul Farber**, *Oregon State University*

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## POPULAR REPRESENTATION OF 20TH-CENTURY SCIENCE

*Salon H*

**Alice Bell**, *Imperial College, London*, “The Incredible Adventures of Professor Branestawm: the Maturing Image of Science in 20th-century Juvenile Literature”

**Katherine Pandora**, *University of Oklahoma*, “The Intimate Scientist: Vernacular Contestations of the View from Nowhere”

**Kim Perez**, *Fort Hays State University*, “Nature as a Field for Fiction”: Mabel Osgood Wright’s Response to the Nature-Faker Controversy”

**Brian Regal**, *Kean University*, “Scientific Authority in Dubious Realms: Grover Krantz and the Anomalous Primates”

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

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## RECONCILING SCIENCE AND RELIGION

*Salon 2*

**Ariel Jacob Segal**, *University of Maryland, College Park*, “Romanticism, Religion, and Geology: Edward Hitchcock on the Sanctifying Role of Science”

**Peter C. Kjaergaard**, *University of Aarhus*, “European Creationism”

**Stephen P. Weldon**, *University of Oklahoma*, “Francis Schaeffer and the Understanding of Modern Science in an Evangelical Context”

**Xiaoli Tian**, *The University of Chicago*, “Of Church and Hospital: Medical Missions in 19th century China”

Chair: **Frederick Gregory**, *University of Florida*

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#### MEDICINE AND SOCIETY IN THE 20TH CENTURY

*Salon 5*

**Adam Biggs**, *Clafin University*, “New Negro Doctors, Old Negro Quacks: Medical Legitimacy and the Problem of Race, 1895-1940”

**Funke Sangodeyi**, *Harvard University*, “Diet as Destiny in Colonial and Post-Colonial Nigeria: Nutrition, Biopolitics and ‘the African Mind’”

**Delia Gavrus**, *University of Toronto*, “‘Springing Minerva-like from the Head of Cushing:’ Neurosurgery and the Rhetoric of Therapeutic Superiority”

**Brigit Ramsingh**, *University of Toronto*, “Food Science and the Codex Alimentarius Commission (1962-1970)”

Chair: **Abena Osseo-Asare**, *University of California, Berkeley*

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#### SCIENCE AND PLACE IN THE 18TH AND 19TH CENTURIES

*Lee*

**Susan N. Johnson-Roehr**, *University of Illinois at Urbana-Champaign*, “Metropolitan Measurements made from the Periphery: The Astronomical Observatory of Jai Singh, Delhi, 1720-1743”

**Peter Ramberg**, *Truman State University*, “Halle Circa 1850: The Intersection of Religion, Popular Science, and Education”

**Susan Marie Groppi**, *University of California, Berkeley*, “Institution and Location: The Science of Psychology at State Universities in the American West, 1880-1910.”

**Dong-Won Kim**, *Johns Hopkins University*, “Two Different Images of the Nuclear Bomb in Japan and Korea, 1945-1960”

Chair: **Ann Shteir**, *York University, Toronto*

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#### CLONING, STEM CELLS, AND EXPERTISE IN SCIENCE

*Salon 6*

**Ben Hurlbut**, *Harvard University*, “Term of ART? Human Cloning, Democratic Engagement and the Importance of Careful Use of Names”



**Rachel A. Ankeny**, *University of Adelaide*, “Evolving Representations of Stem Cells from the 1960s to the Present”  
**Rikke Schmidt Kjaergaard**, *Steno Institute, University of Aarhus*, “Stem Cell Spin: Covering “the Hwang Affair””  
**Andrew Mendelsohn**, *Imperial College London*, “The Role of Forensics in the Rise of Modern Medical Thought”  
 Chair: **Lindley Darden**, *University of Maryland*

#### REVISITING EARLY MODERN ASTRONOMY

*Salon 3*

**Jason Aleksander**, *St. Xavier University*, “The Legacy of the Copernican Revolution in Light of the Erosion of a Pre-modern Prohibition Against the Applicability of Mathematics to the Physical Sciences”  
**Ari Belenkiy**, *Bar-Ilan University*, “Groping Toward Linear Regression Analysis: Newton’s Analysis of Hipparchus’ Equinox Observations”  
**Aviva Rothman**, *Princeton University*, “Kepler’s Conversation with the Past”  
**Derek Jensen**, *Brigham Young University - Idaho*, “Hevelius’s Baroque Map of the Moon”  
 Chair: **Darin Hayton**, *Haverford College*

#### CULTURES OF NATURAL KNOWLEDGE IN ISLAM

*Jackson*

**Bekir Harun Kucuk**, *University of California, San Diego*, “Islamism to Realism: The Journey of ‘Islam and Science,’ 1850-1950”  
**Alper Yalcinkaya**, *University of California, San Diego*, “Using Draper to Save the Empire: An Ottoman Appropriation of the ‘Conflict Thesis’”  
**Avner Ben-Zaken**, *Harvard Society of Fellows*, “Bridging Networks of Trust: Practicing Astronomy in Late sixteenth-century Salonika”  
 Commentator: **F. Jamil Ragep**, *McGill University*  
 Chair: **\*Robert S. Westman**, *University of California, San Diego*

#### THE PEIRCES OF BOSTON: SNAPSHOTS OF SCIENCE IN 19TH-CENTURY AMERICA

*Jefferson*

**Joseph W. Dauben**, *City University of New York*, “Peirce and Sherlock Holmes: The Abductive Scientific Method and Creative Genius”

HSS Friday

**Deborah A. Kent**, *Simon Fraser University*, “Like Father, Like Son?: Peircean Approaches to Mathematical Thinking”

**Matthew E. Moore**, *Brooklyn College of the City University of New York*, “On Peirce’s Proofs of Cantor’s Theorem”

Commentator: **Albert Lewis**, *Indiana University*

Chair: **Karen Parshall**, *University of Virginia*

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**NATIONAL CONTEXTS IN SCIENCE: THE CASE OF ITALY**

*Madison*

**Aaron J. Wirth**, *Brandeis University*, “Anti-Clerical Physicians in Fin-de Siècle Italy”

**Daniele Cozzoli**, *Pompeu Fabra University, Barcelona* & **Mauro Capocci**, *University of Rome*, “The Making of the Italian Scientific Research System: the Case of Domenico Marotta (1886-1974).”

**Luciano Boschiero**, *Campion College, Australia*, “Giovanni Borelli and the 1664-1665 Comet: a Prelude to his Celestial Mechanics”

**Sultana Banulescu**, *City University of New York - Graduate Center*, “The Vicar of Via Panisperna: Franco Rasetti’s Century-Long Journey from Physics to Paleontology (1901-2001)”

**Sandra Linguetti**, *University of Bologna*, “Vito Volterra and the Oceanographic Studies”

Chair: **Luciano Boschiero**, *Campion College, Australia*

(COFFEE BREAK, EXHIBIT AREA - 3:10 P.M. - 3:30 P.M.)

Friday, 3:30 p.m.– 5:30 p.m.

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**ARCHEUS IN MACHINA: THAT OTHER MECHANICAL PHILOSOPHY IN THE SEVENTEENTH CENTURY**

*Madison*

\***Jole Shackelford**, *University of Minnesota*, “Severinus’ Paracelsian Seeds: Mechanical Actors on the World Stage”

**Hiro Hirai**, *Ghent University, Belgium*, “Mechanical Spirits and Seminal Principles in Van Helmont and Gassendi”

**Christoph Lüthy**, *Radboud University Nijmegen*, “Misled by Boyle: There Was No Mechanical Philosophy”



Commentator: **Margaret Garber**, *California State University, Fullerton*  
 Chair: **Bruce Moran**, *University of Nevada, Reno*

## MEDIA AND APPROPRIATION

### *Salon 3*

**James Secord**, *University of Cambridge*, “The Astronomer’s Scrapbook”

\***Paul White**, *University of Cambridge*, “Darwin’s Readers”

**Adrian Johns**, *University of Chicago*, “Pirate Listeners and the Political Economy of Broadcasting, 1920-1950”

Commentator: **Bruce Lewenstein**, *Cornell University*

Chair: **Paul White**, *University of Cambridge*

## REGIONALISM IN SCIENCE AND MEDICINE IN NINETEENTH-CENTURY AMERICA

### *Salon 1*

**Toby A. Appel**, *Yale University*, “The Thomsonian Movement, Regular Medicine, and the State in Antebellum Connecticut: A Local Study of a National Phenomenon”

**Gwen Kay**, *SUNY Oswego*, “Murder, Patient Privilege and Other Bioethical Questions in 19th-Century Medicine”

\***Daniel Goldstein**, *University of California, Davis*, “Do Animals Have Souls and Other Darwinian Dilemmas: Midwesterners react to the Origin of Species”

Commentator: **Ron Numbers**, *University of Wisconsin, Madison*

Chair: **Daniel Goldstein**, *University of California, Davis*

## LABORATORIES, FASCISM AND THE LANDSCAPE

### *Jackson*

\***Tiago Saraiva**, *University of Lisbon*, “Laboratory Fascist Fields: Plant Breeding and Colonization in Portugal (1936-1974)”

**Lino Camprubi**, *UCLA*, “Coal, Concrete and Design: Engineering and Political Economy in Authoritarian Spain Circa 1953.”

**Susanne Heim**, *Editionsprojekt “Judenverfolgung 1933-1945,”* “Nazi Agricultural Looting in Wartime Europe”

Chair & Commentator: **Norton Wise**, *UCLA*

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**ON THE ORIGINS OF BOTANICAL GARDENS: PLACE, PATRONAGE, AND PURPOSE**

*Salon 6*

**Denis Diagre**, *National Botanic Garden of Belgium*, “Rooted in the Century: Strategies to Survive and Thrive of the Brussels Botanic Garden (1826-1914)”

\***Kim Kleinman**, *Missouri Botanical Garden/Webster University*, “Henry Shaw: The First Friend of the Missouri Botanical Garden”

**Peter P. Mickulas**, *New Jersey Historical Commission*, “Getting and Growing: Nathaniel Britton, New York, and the Politics of American Botany”

Commentator: **Barbara Kimmelman**, *Philadelphia University*

Chair: **Kim Kleinman**, *Missouri Botanical Garden/Webster University*

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**THE USES OF NEW WORLD NATURE: MATERIA MEDICA AND THE CIRCULATION OF KNOWLEDGE IN THE EARLY MODERN SPANISH ATLANTIC WORLD**

*Salon H*

**Antonio Barrera**, *Colgate University*, “Mestizo Science and the New Science: The Atlantic World in the 16th and 17th Centuries.”

**Paula De Vos**, *San Diego State University*, “From Herbs to Alchemy: Chemical Medicine in the Colonial Mexican Pharmacy”

\***Matthew James Crawford**, *University of California, San Diego*, “Making a Better Bark: Pharmaceutical Expertise and Spain’s Royal Monopoly of Cinchona Bark in the Eighteenth Century”

**Miruna Achim**, *Universidad Autonoma Metropolitana, Mexico City*, “Lizards in a Box: Testing Out Medicines in the Eighteenth-Century Atlantic World”

Chair: **Paula Findlen**, *Stanford University*

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**THE END OF SCIENCE**

*Salon 2*

\***Gabriel Finkelstein**, *University of Colorado-Denver*, “Emil du Bois-Reymond and the End of Science”

**John Horgan**, *Stevens Institute of Technology*, “*The End of Science: A Retrospective after Ten Years*”

**Andre Wakefield**, *Pitzer College, Claremont Colleges*, “The End of History of Science?”



Chair & Commentator: **Manfred Laublicher**, *Arizona State University*

THE ELEPHANT IN THE ROOM: FINDING A PLACE FOR THE NIH IN BIOMEDICAL HISTORY

*Salon 5*

**Buhm Soon Park**, *National Institutes of Health*, “Science as a Weapon in the War Against Disease in Mid-Twentieth-Century America”

\***Joseph November**, *University of South Carolina*, “‘Planting the Seeds.’ How the NIH Cultivated Biomedical Computing”

**David Cantor**, *National Institutes of Health*, “When Experts Disagree: Public Trust and the 1997 Controversy over Routine Mammography for Healthy Women in Their 40s.”

Commentator: **Angela Creager**, *Princeton University*

Chair: **Victoria Harden**, *Office of NIH History*

SKETCHES FROM THE HISTORY OF RUSSIAN ECOLOGY, 1830-2000

*Jefferson*

**Erki Tammiksaar**, *Estonian University of Life Sciences*, “On Nature’s Household: Karl Ernst von Baer’s Reasoning about Organisms and Environment”

**Lloyd Ackert**, *Drexel University*, “Biological Thermodynamics: Andrei Famintsyn’s “Exchange of Matter and Transformation of Energy,” 1850-1885”

**George S. Levit**, *Friedrich-Schiller-Universität Jena*, “Vladimir I. Vernadsky and Russian Ecology” (Read by **Sabine Brauckmann**)

Chair and Commentator: \***Sabine Brauckmann**, *Estonian University of Life Sciences*

CRITICS OF SCIENTIFIC NATURALISM

*Salon K*

\***Bernard Lightman**, *York University*, “‘A Conspiracy of One’: Samuel Butler, Scientific Naturalism, and Victorian Popularisation”

**Matthew Stanley**, *Michigan State University*, *Lyman Briggs School of Science*, “Against “The Material Spirit of the Age”: Maxwell’s Rejection of Scientific Naturalism”

HSS Friday

**George Levine**, *Rutgers University, Emeritus; New York University, Distinguished Scholar in Residence*, “The Scientific Naturalists and the Moral Life: From ‘Is’ to ‘Ought’”

Commentator: **John Lynch**, *Arizona State University*

Chair: **Geoffrey Cantor**, *University of Leeds*

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THE PRACTICAL SCIENCES OF MAPS AND MEASUREMENT: SURVEYING, NAVIGATION  
AND NATURAL RESOURCES IN BRITAIN AND THE UNITED STATES, 1750-1860

*Salon J*

**Alice Walters**, *St. Francis University*, “Piracy in the National Interest: Acquiring and Adapting British Navigational Technologies, 1789-1812”

\***Ann Johnson**, *University of South Carolina*, “Intellectual and Geographical Borderlands: Competing Mathematical and Political Ideals in the US Rectangular Survey, 1789-1820”

**Peter A. Shulman**, *Johns Hopkins University*, “Swamps, Surveying and Security: The Maritime Origins of American Forest Conservation”

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

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MATHEMATICS IN THE 17TH CENTURY

*Lee*

**Angelo Pedro De Bruycker**, *Catholic University Leuven*, “Some Notes on Jesuit Mathematics in the Spanish Netherlands”

**Nikhil Bhattacharya**, *Retired*, “Galileo’s Mathematical Physics in Its University and Military Contexts”

**Robert Goulding**, *University of Notre Dame*, “Tearing Hypatia: The Beginnings of Euclidean Criticism”

Chair: **Nancy N. Hall**, *University of Delaware*

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Friday, 5:45 p.m. - 6:15 p.m.

EARTH AND ENVIRONMENT FORUM MEETING

*Salon 2*

All scholars of the earth and the environment are invited.



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

**HSS RECEPTION**

*Arlington Ballroom, Foyer*

Friday, 6:30 p.m. - 7:30 p.m.

**ABRAMS PRIZE RECEPTION**

*Salon K*

The University of Chicago Press invites you to attend a reception to honor Deborah R. Coen, whose *Vienna in the Age of Uncertainty: Science, Liberalism, and Private Life*, has been awarded the 2007 Susan Abrams Prize.

Friday, 7:00 p.m. - 7:30 p.m.

**BACON PRIZE RECEPTION**

*Salon 2*

On behalf of the California Institute of Technology we are pleased to invite you to attend a reception in honor of Alexander Jones, second winner of the Bacon Award in the history of science or technology. Please join us in congratulating Alex.

Friday, 7:00 p.m. - 8:30 p.m.

**UNIVERSITY OF CALIFORNIA PRESS RECEPTION**

*Salon J*

Friday, 7:30 p.m. - 8:30 p.m.

**NSF GRANT WORKSHOP**

*Madison*

**Fred Kronz** and other representatives of the science and society programs

HSS Friday

Friday, 7:30 p.m. – 9:30 p.m.

**CARTOON MEDICINE SHOW: RARE ANIMATED CARTOONS FROM THE  
COLLECTION OF THE NATIONAL LIBRARY OF MEDICINE**

*Salon 1*

Chairs and Commentators: **Michael Sappol** and **David Cantor**,  
*History of Medicine Division, National Library of Medicine*

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**TEACHING THE HISTORY OF “SCIENCE IN NONWESTERN CULTURES”**

**Salon H**

~ Committee on Education Workshop ~

Organizer: **Robert DeKosky**, *University of Kansas*

**William Summers**, *Yale University*, Teaching the History of  
“Science in Chinese Culture”

**James Bartholomew**, *Ohio State University*, “Teaching the  
History of “Science in Japanese Culture”

**Clara Sue Kidwell**, *University of Oklahoma*, “Teaching the  
History of “Science in Native American Cultures”

Chair: **Jessica Wang**, *University of British Columbia*

Friday, 9:30 p.m. – 11:00 p.m.

**GRADUATE STUDENT PARTY**

*Salon K*

**Saturday, 3 November**

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

**OSIRIS EDITORIAL BOARD MEETING**

*McLean*

**COMMITTEE ON HONORS AND PRIZES, COMMITTEE ON EDUCATION**

*Terrace Restaurant*



## FORUM FOR THE HISTORY OF SCIENCE IN AMERICA STEERING COMMITTEE

TBA

Saturday, 9:00 a.m. – 11:45 a.m.

(COFFEE BREAK, EXHIBIT AREA - 10:00 A.M. - 10:15 A.M.)

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 NEW ADVANCES IN THE HISTORY OF SCIENCE AND MEDICINE  
 IN MODERN CHINA
*Salon 5*

**\*Danian Hu**, *The City College of New York*, “William Band and Modern Physics at Yenching University”

**Baichun Zhang**, *Institute for the History of Natural Science, Chinese Academy of Sciences*, “Wang Zheng and the Transmission of Western Mechanical Knowledge to China in the 17th Century”

**Yibao Xu**, *Borough of Manhattan Community College of the City University of New York*, “A Chinese Perspective of Euclid’s Elements”

**Miao Tian**, *Institute for the History of Natural Science, Chinese Academy of Sciences*, “Research of Algebra in China during 1700-1840”

**Daqing Zhang**, *Center for History of Medicine, Peking University*, “Reconstructing the Traditional Chinese Medicine by Science – A Historical Study of the Medical Research Society of China”

**Yuelin Zhu**, *Harvard University, Monroe C. Gutman Library*, “Women’s Liberation Movement and the Women Scientists in the Early 20th Century China: The Case of Chien-Shiung Wu”

Chair: **Joseph Dauben**, *City University of New York*

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 UNIVERSITY TEACHING AND SCHOLARSHIP IN 17TH-CENTURY EUROPE
*Salon K*

**H. Darrel Rutkin**, *Stanford University*, “Changing Curricular Patterns: Astrology and the Italian Universities, ca. 1300-1800”

**Ann Blair**, *Harvard University*, “Early Modern Teaching through the Lens of Student Notes”

HSS Saturday

\***Karin J. Ekholm**, *Indiana University*, “Challenges to Galenic Anatomy in Highmore’s and Bartholin’s Textbooks of 1651”

\***Renee Jennifer Raphael**, *Princeton University*, “Teaching Galileo’s 1638 “Discorsi” at the University of Pisa and the Jesuit Collegio Romano, 1638-1658”

Chair and Commentator: **Mordechai Feingold**, *California Institute of Technology*

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#### WAR, PEACE AND MATHEMATICS: THE DECISION SCIENCES, 1937-1965

*Salon J*

\***William Thomas**, *Harvard University*, “Beyond the Science of Warfare: The Origins of Systems Analysis, 1937-1954”

**Judy L. Klein**, *Mary Baldwin College*, “Cold War, Dynamic Programming, and the Science of Economizing: Richard Bellman Strikes Gold in Policy Space”

**Paul Erickson**, *University of Michigan*, “A Calculus for a Science of Peace? Peace Research, Conflict Resolution, and the History of Game Theory”

**S M. Amadae**, *Ohio State University*, “The Prisoner’s Dilemma: Normalizing a Post-Modern Political Economy of Exchange?”

Chair and Commentator: **Hunter Heyck**, *University of Oklahoma*

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#### ENVIRONMENTAL SCIENCE AS INDUSTRIAL RESEARCH

~Sponsored by the Earth and Environment Forum~

*Salon 1*

**Jeremy Vetter**, *Dickinson College*, “Developing the American West: Agricultural Sciences and the “Land Industry” in the Railroad Era”

**Paul Lucier**, *Independent Scholar*, “The Origins of Economic Geology: S.F. Emmons and the USGS in Leadville, CO”

**Emily Brock**, *Georgia State University*, “ “What is Industrial Forestry?” Pushing the Boundaries of Forest Science in the Interwar Years”

\***Roger Turner**, *University of Pennsylvania*, “A Science and Industry of the Air: Airline Meteorology, 1919-1941”

Chair and Commentator: **Helen Rozwadowski**, *University of Connecticut*




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**GOING GLOBAL? MIGRATING GERMANS AND THEIR SCIENCES, 1800-1950**
*Salon 2*

\***Lynn K. Nyhart**, *University of Wisconsin, Madison*, “Emigration, Migration, Annexation: The Strange History of the ‘Lebensraum’ Concept in German Geography”

**Roderick W. Home**, *University of Melbourne*, “German Scientists in Nineteenth-Century Australia”

**Ute Deichmann**, *Leo Baeck Institute London, University of Cologne*, “German, Jewish or American? Emigré Biochemists in the US and Their Research Practices, 1890-1930”

**Michael R. Dietrich**, *Dartmouth College*, “Beyond Transplantation: Viktor Hamburger, Walter Landauer, and the Rise of Developmental Genetics in the United States”

**Michael Gordin**, *Princeton University*, “Second Time Tragedy: Germans as Russian Chemists from Alexander’s Petersburg to Stalin’s Gulag”

Chair: **Lynn K. Nyhart**, *University of Wisconsin, Madison*

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**READING THE EARTH’S HISTORY: GEOLOGY, CHRONOLOGY,  
AND PALEONTOLOGY, 1700-1900**
*Salon 3*

\***Lydia Barnett**, *Stanford University*, “Prophecy and Prediction: The History of the Earth and the Question of the Earth’s Future in the Late Seventeenth Century”

**Martin Rudwick**, *University of Cambridge*, “On Taking the ‘Geological Deluge’ Seriously; or, Geology without Genesis”

**Thomas Burnett**, *University of California Berkeley*, “Developing a History of Life in Göttingen: Interpreting the Succession of Biotic Forms in the Fossil Record, 1800-1830”

**Sandra Herbert**, *University of Maryland, Baltimore County*, “Charles Darwin’s Reflections in 1850: ‘All young geologists have a great turn for speculation; I have burned my fingers pretty sharply in that way.’”

**David Sepkoski**, *University of North Carolina Wilmington*, “Darwin’s Dilemma: Evolution, the Fossil Record, and Paleontology, 1859-1945”

Chair: **David Sepkoski**, *University of North Carolina, Wilmington*

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**NATURE'S MARKETPLACE: COMMERCE AND NATURAL HISTORY IN THE LONG  
EIGHTEENTH CENTURY**

*Salon H*

**Elizabeth Yale**, *Harvard University*, "The Patronage of the Publick: Printing Learned Natural History by Subscription in England, 1690-1710"

\***Kathleen Susan Murphy**, *California Polytechnic State University*, "Science, Prosperity, and National Advantage: John Ellis and Networks of Natural History in the British Atlantic, 1755-1776"

**Katherine A. Hermes**, *Central Connecticut State University*, "Some Preparations at Deptford: American Interest in the Voyages of Captain Cook, 1768-1783"

\***Sarah Easterby-Smith**, *University of Warwick*, "Two of a Kind? Botanical Exchange and the Commercial Plant Trade in Paris, c. 1770-1800"

Chair and Commentator: **Philip Pauly**, *Rutgers University*

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**THE BIRTH OF BIOMECHANICS: ENGINEERING THE BODY IN MODERN AUSTRIA,  
GERMANY, AND THE UNITED STATES**

*Madison*

**Jennifer K. Alexander**, *University of Minnesota*, "Conflating Labor and Leisure: Biomechanics during the Second World War"

**Tatjana Buklijas**, *University of Cambridge*, "Mechanical Anatomy, The Imperial Army and Orthopaedic Surgery in the Late-Nineteenth-Century Vienna"

\***Beth Linker**, *University of Pennsylvania*, "The Burden of the Body: Making Exercise Mechanical in Interwar America"

\***Thomas Schlich**, *McGill University*, "Fixing the Biomechanical Body: Rationalized Fracture Treatment in WWI"

Chair and Commentator: **Greg Eghigian**, *Penn State University*

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**MATHEMATICAL SCIENCES AND NATURAL PHILOSOPHY IN ANTIQUITY AND THE  
MIDDLE AGES**

*Salon 6*

**Jean De Groot**, *The Catholic University of America*, "DUNAMIS and Mechanical Advantage in Aristotle"



**Elaheh Kheirandish**, *Harvard University*, “‘Quwwa’ in the Arabic Optical and Mechanical Traditions”

\***Edith Dudley Sylla**, *North Carolina State University*, “The Proportions of ‘potentiae’ and ‘velocitates’ in Bradwardinian Physics”

**Walter Roy Laird**, *Institute for Advanced Study*, “Blasius of Parma and Scholastic Mechanics”

Chair: **Richard Hassing**, *Catholic University*

#### EXPLORING THE HISTORY OF WOMEN IN SCIENCE

*Jackson*

**Melinda Clare Baldwin**, *Princeton University*, “‘Where Are Your Intelligent Mothers?’: Marriage and Family in the Scientific Career of Dame Kathleen Lonsdale”

**Robin L. Gordon**, *Mount St. Mary’s College*, “Searching for the *Soror Mystica*: Women Alchemists As Scientists, Theologians, and Healers”

**Christopher Green**, *York University*, “Why Ada?: Selecting Someone to Promote Babbage’s Analytical Engine in Great Britain”

**David Hecht**, *Bowdoin College*, “Celebrating Carson: *Silent Spring* and Changing Notions of Popular Scientists in America”

Commentator & Chair: **Elizabeth Green Musselman**, *Southwestern University*

#### MATERIAL CULTURE AND THE CIRCULATION OF KNOWLEDGE IN THE EARLY MODERN LOW COUNTRIES

*Jefferson*

**Claudia Swan**, *Northwestern University*, “Imported Knowledge: Fragments of the New World in the Context of Dutch Collections 1585-1625”

**Steven Vanden Broecke**, *K.U. Brussel*, “A Copernican debate on the eve of the Galileo affair: Fromondus vs. the Lansbergii”

\***Sven Dupré**, *Ghent University*, “Inside the *Kunstkamer*: Art Cabinets, Optics and Collections in Early Seventeenth-Century Antwerp”

**Fokko Jan Dijksterhuis**, *University of Twente*, “Generations of Curves Through the Dutch Republic”

Chair: **Alix Cooper**, *SUNY Stony Brook*

Saturday, 12:00 p.m.– 12:30 p.m.

FORUM FOR THE HISTORY OF HUMAN SCIENCES BUSINESS MEETING

*Salon 2*

Saturday, 12:00 p.m.– 1:15 p.m.

WORKING KNOWLEDGES BEFORE AND AFTER C. 1800: PRACTICES AND DISCIPLINES IN THE HISTORY OF SCIENCE, TECHNOLOGY AND MEDICINE

*Salon H*

~ An open discussion session based on John Pickstone’s ISIS article issue

September 2007~

\***Chris Hamlin**, *University of Notre Dame*

**Paula Findlen**, *Stanford University*

**Domenico B. Meli**, *Indiana University*

**Bruno Strasser**, *Yale University*

\***John Pickstone**, *University of Manchester*

Chair: **Sarah Jansen**, *Harvard University*

SOURCES FOR THE HISTORY OF SCIENCE AND MEDICINE – NEW PERSPECTIVES

*Salon J*

**Steve Greenberg**, *National Library of Medicine*

**Judy Chelnik**, *National Museum of American History, Smithsonian Institution*

\***Paul Theerman**, *National Library of Medicine*

Chair: **Paul Theerman**, *National Library of Medicine*



RECALLING THE "PREHISTORY" AND EARLY DAYS OF WOMEN SCIENTISTS IN AMERICA, 1: (WSA-1): WHO HELPED, WHO HINDERED, WHO STOOD BY, AND WHERE ARE WE TODAY?

*Salon 1*

**Margaret Rossiter**, *Cornell*, "You are committing professional suicide': Researching Women Scientists in America During the 1970s"

**Vera Rubin**, *Carnegie Institution of Washington, National Academy of Science*, "Women Astronomers Before WSA-I and Today"

**Tanya Zanish-Belcher**, *Iowa State University*, "Archival Practices re: Women in Science; Implications of WSA-I"

**Mike Sokal**, *Worcester Polytechnic Institute*, "Observing the Origins of What Became Women Scientists in America-I: Some Reminiscences"

**Ron Rainger**, *Texas Tech University*, "NSF as a Sponsor of the History of Women in Science: WSA-I, II & III as Exemplars"

**Marilyn B. Ogilvie**, *University of Oklahoma* & **Joy Harvey**, *Independent Scholar*, "Women in Science as a Bibliographic Challenge"

**Ellen More**, *University of Massachusetts Medical School*, "Women in Medicine and the Professions in the 1970's and today"

**Toby Appel**, *Yale University*, "Ivy League Graduate Students of the 1970's & WSA-I"

**Nancy G. Slack**, *Russell Sage College*, "Women in Field Biology Before and After WSA-I"

**Abha Sur**, *Massachusetts Institute of Technology*, "The History of Women in Science in India: WSA-I as a Catalyst"

**Lynne O. Elkin**, *California State University*, "Franklin's Woman Colleagues"

Chair: \***Pnina G. Abir-Am**, *Brandeis University*

HSS Saturday

Saturday, 12:00 p.m. - 1:15 p.m.

COMMITTEE ON MEETINGS AND PROGRAMS

*Salon 5*

Saturday, 12:00 p.m. - 3:00 p.m.

COMMITTEE ON PUBLICATIONS

*McLean*

Saturday, 12:30 p.m. - 1:15 p.m.

FORUM FOR THE HISTORY OF HUMAN SCIENCES DISTINGUISHED LECTURE

*Salon 2*

**John Burnham**, *Medical Heritage Center, The Ohio State University*

“How Boundaries Dissolve in Writing Disciplinary Histories: The Exemplary, Agonizing Case of Accident Proneness (Unfallneigung)”

Saturday, 1:30 p.m.- 3:10 p.m.

ANGELS AND MACHINES: THEOLOGY AND MECHANICAL-MATERIAL CULTURES  
IN EARLY MODERN EUROPE

*Salon 2*

**Jean-Francois Gauvin**, *Harvard University*, “Music, Machines, and Theology: Mersenne’s Organ as a Christian Symbol of Natural Philosophy”

**Matthew L. Jones**, *Columbia University*, “Natural Hierarchy, Artisans, and Early Modern Calculating Machines”

\***Adelheid Voskuhl**, *Harvard University*, “Humans, Machines, and Angels: Music-playing Women Automata and Jean Paul’s Theology in the German Enlightenment”

Commentator: **Myles Jackson**, *Willamette University*

Chair: **Adelheid Voskuhl**, *Harvard University*

RADIATION IN SCIENCE AND SOCIETY

*Salon K*

**Matthew Lavine**, *University of Wisconsin, Madison*, “‘Radiumac Does Wonders, Contains No Radium’: Radon-infused Water and Early American Nuclear Culture.”

**Alex Wellerstein**, *Harvard University*, “‘Old H-bomb Arguments Never Die!’: History, Secrecy, and the Teller-Ulam Priority Dispute”

**Brianna Rego**, *Stanford University*, “The Polonium Brief: A Hidden History of Cancer, Radiation, and the Tobacco Industry”



Chair: **Luis Campos**, *Drew University*

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**BIOCHEMISTRY AND BIOMEDICAL RESEARCH**

*Lee*

**Hallam Stevens**, *Harvard University*, “Seeing Sequences and Picturing Proteins: Visualization Techniques in Bioinformatics”

**Rivers Singleton**, *University of Delaware*, “Harland Goff Wood and American Biochemistry”

**Todd Michael Olszewski**, *Yale University*, “Rudolf Schoenheimer, Atherogenesis, and Sterol Metabolism in the 1920’s”

Chair: **Marsha Richmond**, *Wayne State University*

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**SCIENCE ON DISPLAY**

*Salon 3*

**Maria Farland**, *Fordham University*, “Decomposing City: Walt Whitman, Sanitary Science, and *Leaves of Grass*”

**Julie Katharine Brown**, *University of Texas Health Science Center, San Antonio*, “Displaying Health and Medicine to the Public: The Exposition, the Museum, and the Exhibition in the Early Progressive Era”

**Victoria Cain**, *American Academy of Arts and Sciences*, “Where Have All the People Gone?: Erasing the Human Presence in Habitat Dioramas”

**Kathryn A. Hoffmann**, *University of Hawaii at Manoa*, “The Spectacular Cadaver: Lessons from the History of Popular Anatomy Shows and Directions for the Future”

Chair: **Charlotte M. Porter**, *University of Florida, Florida Museum of Natural History*

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**TWENTIETH-CENTURY ECOLOGY**

*Jackson*

**Sabine Hoehler**, *University of Hamburg*, “‘Spaceship Earth’: Imagining Environment in the Age of Ecology”

HSS Saturday

**Gene Cittadino**, *New York University*, “Contested Knowledge and Resource Policy in the Red River Boundary Dispute”

**David Tomblin**, *Virginia Tech*, “The Role of Restoration Ecology and the Local Ownership of Science in the Cultural Revitalization of the White Mountain Apache Tribe, 1940-2000”

**Etienne S. Benson**, *Massachusetts Institute of Technology*, “Field Research in the Public Eye: Tagging Whales Before and After the Marine Mammal Protection Act of 1972”

Chair: **Karen N. Oslund**, *Towson University*

#### PEDAGOGY AND POPULARIZATION

*Jefferson*

**Alan James Clamp**, *University of South Carolina*, “Changes in Attitudes Towards Science in Nineteenth Century Mainstream America”

**John Paul DiMoia**, *Princeton University*, “Teaching the Atom: Raymond L. Murray and the Internationalization of Nuclear Engineering at NCSU, 1950-1963”

**Giny Cheong**, *George Mason University*, “The Hubble Space Telescope: the Official Story and Public Perception through the Media”

**Despina Kakoudaki**, *Harvard University*, “The Robot as an Object of Study: Imagination, Fiction and Reality”

Chair: **Julie Newell**, *Southern Polytechnic State University*

#### SCIENCE IN THE COLD WAR

*Salon 5*

**Peter Westwick**, *University of California, Santa Barbara*, “The Strategic Offense Initiative? ‘Space-strike Weapons’ and the Soviet Response to SDI”

**David A. Pantalony**, *Canada Science and Technology Museum*, “Propaganda or Education? The Controversy over the Importation of Soviet Scientific Instruments to America in 1959”

**Dominique A. Tobbell**, *University of Pennsylvania*, “‘Who’s Winning the Human Race?’ Cold War as Pharmaceutical Political Strategy”



**Stephanie Young**, *University of California, Berkeley*, “Managing Military R&D: The Planning Programming Budgeting System in the Department of Defense, 1961-1968”

Chair: **Kristie Macrakis**, *Michigan State University*

#### EUGENICS IN THEORY AND PRACTICE

*Salon H*

**Matthis Krischel**, *Humboldt-Universität zu Berlin*, “The Perceived Hereditary Effect of World War I”

**Megan Glick**, *Yale University*, “White Chimpanzees: Primatology as Eugenic Practice in the Work of Robert Mearns Yerkes”

**Veronika Hofer**, *Medical University of Vienna*, “Constitutional Pathology - Eugenics – Human Genetics: Julius Bauer and Vienna’s Medical Culture 1900-1945”

Chair: **Susan Rensing**, *Mississippi State University*

#### PRE-MODERN TRANSMISSION AND TRANSLATION

*Salon 6*

**Renzo Baldasso**, *Columbia University*, “Regiomontanus’s Revolutionary Books”

**Robert G. Morrison**, *Whitman College*, “The Transmission of Islamic Astronomy to Jews”

**Alain Touwaide**, *Smithsonian Institution*, “Global Science and International Language: The Case of the Medieval Mediterranean”

**Katherine A. Tredwell**, “The Antediluvian Origin of Astronomy: Josephus, Qumran, and the Lutherans”

Chair: **Michael H. Shank**, *University of Wisconsin*

#### TWENTIETH-CENTURY PSYCHOLOGY AND NEUROLOGY

*Salon J*

**Michael Pettit**, *University of Toronto*, “‘The Unobserved but Observing Observer’: The Psychologist as Deceptive Performer and the Search for Natural Responses”

**Carrie Eisert**, *Princeton University*, “The Psychiatry of Birth Control Pill Acceptance, 1967-1973”

**Sherrie L. Lyons**, *Empire State College, SUNY*, “East Meets West: Buddhism, Neuroplasticity and Mirror Neurons: Revisiting Evolutionary Ethics”

**Naamah Akavia**, *University of California Los Angeles*, “Subjectivity in Motion: Hermann Rorschach’s Inkblot Test and the Motif of Movement in Psychiatry and Aesthetics”

Chair: **Grace Sirju-Charran**, *University of West Indies, Trinidad*

**DRAWING BOUNDARIES: MATHEMATICIANS, EINSTEIN AND THE UNIFICATION PROJECT**

*Salon 1*

**Catherine Goldstein**, *CNRS- Institut de mathématiques de Jussieu*, “Unity and Reality according to A. N. Whitehead”

\***Jim Ritter**, *Université de Pais 8 / Institut Mathématique de Jussieu*, “Mathematizations of the World Picture: Mathematicians in Unified Field Theory 1920-1930”

**Tilman Sauer**, *Caltech*, “Number Theory, Geometry, and Electromagnetism: Hilbert’s Perspective on the Unity of Science”

**Jeroen Van Dongen**, *Utrecht University*, “The Genesis of General Relativity and its Influence on Einstein’s Unified Field Theory Programme”

Chair: **Jim Ritter**, *Université de Pais 8 / Institut Mathématique de Jussieu*

**SCIENCE OF LIFE INSURANCE, SCIENCE OF SOCIETY**

*Madison*

\***Dan Bouk**, *Princeton University*, “The Scientific Valuation of American Lives: Mathematicians and the Foundations of a Commercial Society”

\***Jonathan Levy**, *University of Chicago*, “Elizur Wright, Jr. and the Actuarial Science of Freedom”

**Megan J. Wolff**, *Columbia University*, “Negroes and Paupers Need Not Apply: Life Insurance and the Science of Progress in the Progressive Era”

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

(COFFEE BREAK, EXHIBIT AREA - 3:10 P.M. - 3:30 P.M.)



Saturday, 3:30 p.m. 5:30 p.m.

**ARTISANS AND PHILOSOPHERS IN EARLY MODERN EUROPE**

*Lee*

**Craig Martin**, *Oakland University*, “Vernacular Meteorology for Courtiers and Ladies”

\***Vera Keller**, *Princeton*, “Cornelis Drebbel (1572-1633): Artisan and Natural Philosopher”

**S. Catherine Abou-Nemeh**, *Princeton University*, “Subtle Anatomy in Eighteenth-Century Bologna: The Anatomical Wax Models of Giovanni (1700-1755) and Anna Morandi Manzolini (1716-1774)”

Chair and Commentator: **Pamela O. Long**, *Independent Scholar*

**INVESTIGATING LABORATORY LIFE: NEW HISTORIOGRAPHY**

*Salon 2*

**Stuart Leslie & Robert Kargon**, *Johns Hopkins University*, “The Laboratory, the Clinic and the Studio: Spaces of Inquiry in Three Eras”

**Lillian Hoddeson**, *University of Illinois*, “Ideology, Imagery, Laboratory, and Science: The Frontier and the Rise of Megascience”

\***Catherine Westfall**, *Argonne National Laboratory/Michigan State University*, “Laboratories and Ecosystems: Accelerator Battles as Survival of the Fittest”

Commentator: **Robert Crease**, *SUNY Stony Brook*

Chair: **Catherine Westfall**, *Argonne National Laboratory/Michigan State University*

**AFTER THE FALL: SCIENCE AND POLITICS DURING THE EARLY YEARS OF THE MAX PLANCK SOCIETY**

*Salon 6*

**Michael Schüring**, *University of California at Berkeley*, “The Shadow President: Ernst Telschow and the Post-War Transformation of the Kaiser-Wilhelm-Society”

**Alexander von Schwerin**, *University of Braunschweig*, “No Mammals for Germany: Biophysics At the Max Planck Society and the Dangers of Civilization”

HSS Saturday

**Thomas M. Berez**, *The Johns Hopkins University*, “Between Pure and Applied Science: Georg Vogelpohl as a Case Study of the Rehabilitation of German Science after the Second World War.”

Chair and Commentator: **\*Sheila Weiss**, *Clarkson University*

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**THE BATTLES OF HEARTS AND MINDS: SCIENTISTS AND THE COLD WAR STATE**

*Salon 1*

**\*Paul Rubinson**, *University of Texas, Austin*, “‘Scientists Wearing the Cloak of Science’: Activism, Objectivity, and Nuclear Weapons, 1954-1963”

**\*Joy Rohde**, *University of Pennsylvania*, “Counterinsurgency on Contract: Project Camelot and the Politics of Cold War Social Knowledge”

**Michael Lewis**, *Salisbury University*, “For the Birds: The Cold War and an Indo-US Ornithological Collaboration”

Chair & Commentator: **John Krige**, *Georgia Institute of Technology*

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**BEYOND EINSTEIN: CONTEXTUALIZING THE THEORY OF RELATIVITY**

*Salon K*

**Stefan Roehle**, *Mainz University*, “Relativity in Leiden: The Role of Willem de Sitter”

**\*Scott Walter**, *University of Nancy*, “The Scandal of Spacetime”

**David E. Rowe**, *Mainz University*, “On Contextualizing Einstein Studies: Max von Laue’s Role in the Relativity Revolution”

**John Stachel**, *Boston University*, “Rise and Fall of Einstein’s Hole Argument”

Chair and Commentator: **John Stachel**, *Boston University*

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**THE LAITY TAKES ON MEDICAL EXPERTISE: CONTESTS OVER GENDER AND HEALTH IN POSTWAR AMERICA**

*Jackson*

**\*Elizabeth Watkins**, *University of California, San Francisco*, “The Medicalization of Male Menopause”

**Wendy Kline**, *University of Cincinnati*, “Bodies of Evidence: Activists, Patients, and the FDA Regulation of Depo Provera”

**Judith Anne Houck**, *University of Wisconsin, Madison*, “Lay Women Health Workers: Balancing Feminist Principles, State Policies, and Medical Pressures, 1971-1981”



**Rebecca M. Kluchin**, *California State University, Sacramento*,  
 “Between ‘On Demand’ and ‘Without Coercion’: Women’s Health  
 Activists Debate the 1978 Federal Sterilization Guidelines”  
 Chair: **Ken Alder**, *Northwestern University*

SCIENCE AND POLITICAL ECONOMY IN THE ATLANTIC EMPIRES OF ENGLAND AND SPAIN  
*Salon H*

\***Matthew Underwood**, *Harvard University*, “The Parliament  
 Way of Reformation: Science and Political Economy in Worsley’s  
 Program for Virginia, c. 1649-51”

**Ted McCormick**, *National University of Ireland, Galway*, “The Advance-  
 ment of Policy: Art and Nature in William Petty’s Political Arithmetic”

**Christopher Warren York**, *Yale University*, “‘The Arroyos Run  
 with Blood’: Dye Production, Intensification, and Mercantile  
 Monopolies in Colonial Oaxaca”

Chair and Commentator: **Eric Ash**, *Wayne State University*

MEDICINE, RELIGION AND SOCIETY IN THE ISLAMIC WORLD  
*Madison*

\***Nahyan Fancy**, *DePauw University*, “Soul, Spirit, Resurrection  
 and the Discovery of the Pulmonary Transit of Blood”

**Sara Scalenghe**, *Indiana University-Bloomington*, “Paracelsus in  
 Ottoman Medicine: The Case of Ibn Sallum (d. ca. 1670)”

**Sherine F. Hamdy**, *Brown University*, “Islam and Bioethics  
 Debates in Egypt: Specificities of Practice in Moral Discourse”

Commentator: **Darin Hayton**, *Haverford College*

Chair: **Nahyan Fancy**, *DePauw University*

NEW PERSPECTIVES ON THE ASYLUM, 1800-1990  
*Salon J*

**Jennifer L. Bazar**, *York University*, “Patient Treatment after Death:  
 The Controversial Practice of Post-Mortem Exams at the Toronto  
 Asylum, 1841-1900”

**Eleanor E. Mayer**, *University of Pennsylvania*, “Law and the  
 Asylum in Pennsylvania, 1900-1990”

**\*Elizabeth A. Williams**, *Oklahoma State University*, “Curing Brain or Stomach? Dietetics in Nineteenth-Century French Asylums”

Chair and Commentator: **Matt Reed**, *Keck Graduate Institute, Claremont Colleges*

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**SOCIAL SCIENCE AND THE CRISES OF AMERICAN LIBERALISM, 1900-1950**

*Salon 5*

**\*Thomas Stapleford**, *University of Notre Dame*, “Numbers, Rules, & Liberalism: Labor Statistics and American Industrial Relations, 1900-1950”

**Jessica Wang**, *University of British Columbia*, “Social Knowledge and the American State: From the Social Survey to the New Deal”

**Andrew Jewett**, *New York University*, “American Social Scientists and the Rise of Consensus Liberalism”

Commentator: **Theodore Porter**, *UCLA*

Chair: **John Carson**, *University of Michigan*

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

Cash Bar Reception (Arlington Foyer)

Saturday, 6:30 - 7:30 p.m.



**HISTORY OF SCIENCE SOCIETY  
DISTINGUISHED LECTURE**

*Salon 3*

Supported by the Joseph H. Hazen  
Foundation

**Theodore M. Porter**

*University of California, Los Angeles*

“How Science Became Technical”

Introduction by **Ken Alder**, *Northwestern University*



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

**ANNOUNCEMENT OF SOCIETY PRIZES**

*Salon 3*

8:00 p.m. - 10:00 p.m.

**SOCIETY DINNER**

*Salon 5 & 6*

**Sunday, 4 November**

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

**HSS BUSINESS MEETING**

*Salon B*

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

(COFFEE BREAK, EXHIBIT AREA - 10:00 A.M. - 10:15 A.M.)

**FIELD GEOGRAPHIES: SITUATING FIELD SCIENCES IN PHYSICAL PLACES AND SOCIAL SPACES**

*Salon H*

\***Gina Rumore**, *University of Minnesota*, "Of Ice and Men: A Historical Geography of Field Science in Glacier Bay, Alaska"

\***Georgina Montgomery**, *Montana State University*, "Situating Transnational Science: The History of the Amboseli Baboon Project, 1963-Present"

**Christian Jennings**, *University of Wisconsin-Stevens Point*, "Colonial Institution as Field Site: The East African Marine Fisheries Research Organization"

**Rachel Mason Dentinger**, *University of Minnesota*, "Plant Passivity or Animal Activity?: Contesting the Chemical Geography of Plant-Herbivore Communities in 1960s Ecology"

Chair & Commentator: **Sharon Kingsland**, *Johns Hopkins University*

HSS Sunday

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**CELEBRATING THE LEONHARD EULER TRICENTENARY**
*Salon 1*

**Dominic W. Klyve**, *Carthage College*, “The Euler Archive and the Benefits of Universal Availability of Primary Sources”

**Craig B. Waff**, *Air Force Research Laboratory*, “Clairaut, d’Alembert, and Euler and Their Interactions Regarding the Problem of the Lunar-Apsides Motion”

\***Ronald S. Calinger**, *Catholic University of America*, “Leonhardo Eulero: Academia Petropolitanae”

Commentator: **Shelley Costa**, *Cornell University/St. John’s College* & **Alexey Lopatukhin**, *St. Petersburg State University*

Chair: **Robert E. Bradley**, *Adelphi University*

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**WOMEN’S PLACES IN SCIENCE***Madison*

\***Chin Jou**, *Princeton University*, “‘Milking It’: Home Economists and World War I Era Dairy Consumption Campaigns”

**Patricia Rosof**, *Hunter College (retired)*, “Straddling Boundaries: The Scientific Career of Dr. Florence Rena Sabin”

**Jun Tsuji**, *Siena Heights University*, “From the Convent to the Laboratory: Sister Miriam Michael Stimson, OP, and Her DNA Research”

\***Jeris Stueland Yruma**, *Princeton University*, “Lise Meitner, From German Physicist to Jewish Refugee”

Chair and Commentator: **Margaret Rossiter**, *Cornell University*

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**EARLY MODERN METHOD AND NATURAL PHILOSOPHY***Salon 2*

**Rose-Mary Sargent**, *Merrimack College*, “Science in the Public Interest: The Relationship between Baconian Experimentalism and the Common Good”

**Brant Vogel**, “The Advent of Graphic Notation in Science”

**Nicholas H. Clulee**, *Frostburg State University*, “John Dee as Inspiration and Provocation for Francis Bacon’s Solomon’s House”

**Kathryn James**, *Yale University*, “Reading Instruments: The Print Culture of Mathematical Instruments in Early Modern Britain”



**Victor D. Boantza**, *University of Toronto*, “Particles and Solvents: Debating Analytical Chemistry and Elemental Theories at the Early Royal Parisian Academy of Sciences” (**Cancelled**)

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

#### PHYSICS IN THE LATE NINETEENTH AND TWENTIETH CENTURIES

*Salon 5*

**Alexander Boxer**, *Massachusetts Institute of Technology*,

“Following the Field Lines: Lingering Images of a Mechanical Aether and the Discovery of Magneto-Hydrodynamic Waves”

**Mina Park**, *Seoul National University*, “A Factory of Spectroscopy: George R. Harrison’s Automatic Machines and the MIT Wavelength Tables”

**Marijn Johannes Hollestelle**, *Leiden Institute of Physics*, “Birds of a Feather? Paul Ehrenfest and Philip Kohnstamm as Sign of the Times.”

**Kalil T. Swain Oldham**, *University of California, Berkeley*, “Locating ‘Cause’ in “fin-de-siècle” Philosophy of Physics: Gustav Kirchhoff’s Importance for Helmholtz, Mach, and Boltzmann”

**Ana Simões**, *University of Lisbon*, “The Appropriation of Relativity by the Portuguese Astronomer Melo e Simas (1870-1934)”

Chair: **David Cassidy**, *Hofstra University*

#### ORIGINS OF THE HUMAN SCIENCES

*Lee*

**Michael Carhart**, *Old Dominion University*, “The Two Networks that Brought Blumenbach That Georgian Skull (and other curiosities from Göttingen, 1775-1806)”

**Kevin Padraic Donnelly**, *Brandeis University*, “Adolphe Quetelet: Professional Science, Social Theory, and the New Intellectual Hierarchy in Western Europe”

**Samuel Talcott**, *DePaul University*, “From Comte to Foucault and Beyond: A New History of the Social Sciences?”

**Chris Renwick**, *University of Leeds*, “Patrick Geddes and the Challenge of Defining Sociology in Late Nineteenth- and Early Twentieth-Century Britain”

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

HSS  
Sunday

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**WAYS OF SEEING IN NINETEENTH-CENTURY LIFE SCIENCE***Salon 6*

**Emily Pawley**, *University of Pennsylvania*, "Profitable Bodies: Images, Proportions and Animal Forms in Agricultural Improvement, 1810-1860"

**Meegan Kennedy**, *Florida State University*, "The Vastness of the Very Small: Imperialist Discourses in Nineteenth-Century British Microscopy"

**Sarah de Rijcke**, *University of Groningen*, "The Ways of the Neuron: Tracing the Circulation of Cajal's Neuron Doctrine (1888-1935)"

**Stefan Bargheer**, *University of Chicago*, "The Play of the Eye: The Emergence and Transformation of Ornithology in Great Britain, 1870-1930"

**Jim Endersby**, *University of Sussex*, "What Does a Species Look Like?"

Chair: **Judy Johns Schloegel**

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**IMMUNOLOGY, TOXICOLOGY, EPIDEMIOLOGY***Jefferson*

**Aaron Pascal Mauck**, *Harvard University*, "Chronic Disease Epidemiology and Institutional Change in American Medicine, 1935-1950"

**Hendrik Aries Edeler**, *ACTA, Academic Centre Dentistry Amsterdam*, "Historical View on the Dutch Debate about Water Fluoridation (1943-1988)"

**Hyung Wook Park**, *The University of Minnesota*, "The Shape of the Human Being as a Function of Time": Mathematics and Theories in Peter Brian Medawar's Research on Immunological Tolerance and Aging"

**Karen Deane Ross**, *Presbyterian College*, "The Laboratory's "Rich Harvest": Snake Venom and Experimental Immunology, 1900-1904"

**Frederick R. Davis**, *Florida State University*, "A Place for Toxicology: Origins of the University of Chicago Toxicity Laboratory"

Chair: **Joseph November**, *NIH*

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**SCIENCE EDUCATION IN THE NINETEENTH-CENTURY***Salon K*

**Carin Berkowitz**, *Cornell University*, "Pedagogical Cultures and Physiological Practice: Educational Institutions and Research Methodology in Early-Nineteenth-Century Britain"

**Amy Ackerberg-Hastings**, *University of Maryland University College*, "'The Acknowledged National Standard': Charles Davies,



A. S. Barnes, and Textbooks at Teaching Tools”

**Melanie Keene**, *University of Cambridge*, “Making Chemistry Your Cup of Tea: Nineteenth-century Object Lessons”

**Michelle Hoffman**, *University of Toronto*, “School Science and the Campaign for Technical Education in Ontario, 1890-1911”

Chair: **Amy Ackerberg-Hastings**, *University of Maryland University*

#### THE RISE OF MODERN BIOLOGICAL SUBSPECIALTIES

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**Sungook Hong**, *Seoul National University*, “Semon’s Meme and Schrödinger’s Gene: An Intellectual Influence”

**Maxi Stadler**, *Imperial College London*, “A.V. Hill and the Discipline of Interwar Biophysics”

**James Strick**, *Franklin and Marshall College*, “Lessons from the Living Cell: Export of Proteins from Cells and Debates over Artifact in Electron Microscopy, 1967-2007”

**Doogab Yi**, *Princeton University*, “Toward a Regulatory Vision of Development: Models for Animal Chromosomes and David Hogness’s Construction of Drosophila Recombinant DNA Libraries, 1967-1987”

**Simone Wenkel**, *Institute of Genetics, Cologne*, “The Reception of Seminal Molecular Biological Papers from 1945 - 1970. An International Comparison.”

Chair: **Margot Iverson**, *Illinois Institute of Technology*

#### ILLUMINATED VISIONS: ARTIFICIAL LIGHT AND PERCEPTION IN NINETEENTH-CENTURY BRITAIN

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**Sharrona Pearl**, *Harvard University*, “Seeing Clearly: Illumination on the Nineteenth-Century Stage”

**Chris Otter**, *Ohio State University*, “Electrifying Perception: Colour, Distance and Detail 1875-1900”

**Chitra Ramalingam**, *Harvard University*, “Electric Instantaneity: Spark Illumination and Photography in Nineteenth-century Britain”

Commentator: **Jennifer Tucker**, *Wesleyan University*

Chair: \***Chitra Ramalingam**, *Harvard University/Imperial College, London*

HSS  
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