

THANK YOU TO OUR SPONSORS

University of Chicago Press, Journals Division
University of Florida Department of History
University of Florida, College of Liberal Arts and Sciences
The Legacy of R.L. Moore Project
The British Journal for the Philosophy of Science and Oxford Journals
Melanie Hunter
Center for Biology and Society, Arizona State University
National Science Foundation
Marjorie Webster
Brent Dibner, Dibner Institute
President's Office, Arizona State University
Department of History, Arizona State University
An anonymous donor in honor of George Gamow

History of Science Society

19-22 November 2009

PHOENIX, ARIZONA



HISTORY OF SCIENCE SOCIETY

PO Box 117360
3310 Turlington Hall
University of Florida
Gainesville FL 32611-7360
USA
352.392.1677
352.392.2795 Fax
www.hssonline.org
info@hssonline.org



on the cover

Superstition Mountains. 2008.

Darren Shaw.

The Superstition Mountains
or “The Supes” are a
range of mountains east
of Phoenix, Arizona.

History of Science Society

19-22 November 2009

PHOENIX, ARIZONA

CONTENTS

Acknowledgements.....	2
Officers and Committees.....	3
Thank You to Our Volunteers.....	4
Dining in Phoenix.....	5
Meeting Rooms.....	6
Book Exhibit.....	9
Registration Desk Schedule.....	10
Session Schedules.....	10
Thursday Sessions.....	10
Friday Sessions.....	11
Saturday Sessions.....	19
Sunday Sessions.....	27
Session Schedule Planning Worksheet.....	30
Awards Ceremony Program.....	32
Business Meeting Agenda.....	33
Advertising.....	34
Index.....	47

ACKNOWLEDGEMENTS

WE ARE DELIGHTED to be in Phoenix for the 2009 annual meeting. My expectations for this year have been higher than usual due to the outstanding people who have labored on the front lines. Our local arrangements members, through Arizona State University, have been exemplary, and I want to thank our local arrangements committee (Rick Creath, chair; Jane Maienschein, Melanie Hunter, Jessica Ranney, Felicity Snyder and many other volunteers) who put heart and soul into this conference. They stuffed packets, recruited student volunteers, made up restaurant guides, created a fabulous web site, and labored on too many tasks to mention. The program co-chairs, Cathryn Carson (University of California, Berkeley) and Jessica Riskin (Stanford University) assembled the 2009 program with good humor, good judgment, and good results, and we are grateful for their many hours devoted to the conference. I was genuinely excited by their creation. Our Committee on Meetings and Programs, chaired by Marc Rothenberg and by Rachel Ankeny over the past year, provided valuable feedback on the structure of the program, saving me from embarrassing missteps, and our newly formed Graduate and Early Career Caucus (especially Jacque Wernimont, Lynnette Regouby, Dawn Digrius, and Taika Dahlbom) worked on our mentorship program and career development efforts. My son, Mason, created the Web registration interface, spending hundreds of hours trouble shooting code, only asking that I feed, clothe, and house him in return. He has his father's deep appreciation. All of these volunteers make the conference possible and if you see them, please tell them, "Thank you!"

The annual meeting works because of the ongoing efforts of the HSS office staff, efforts that began years before the actual conference:

Virginia Hessels, our Coordinator, devoted untold hours on room assignments, banquet orders, a/v requests, and literally hundreds of inquiries, while our graduate students, Michal Meyer and Matt White, covered details ranging from the book exhibit, to registration challenges, to designing the meeting program, to fixing Web glitches, to many other essential tasks. They, along with numerous other students, will be working at the registration table and book exhibit—please thank them for their efforts.

Because conference expenses continue to rise dramatically, sponsorships and support are an important part of each meeting. Without the assistance of Arizona State University's Center for Biology and Society; the President's Office at Arizona State University; HSS member Melanie Hunter; the University of Chicago Press, Journals Division; the Legacy of R.L. Moore Project; Oxford University Press, Journals Division; the History Departments at the University of Florida and Arizona State University; the College of Liberal and Sciences at the University of Florida; Marjorie Webster; Brent Dibner; and a most generous anonymous donor, the conference would cost much more. I appreciate, beyond words, their help.

The HSS Executive Committee provided support, understanding, and wisdom on all aspects of the meeting and the Executive Office—they too, have my profound thanks. Finally, you the participants, make this all worthwhile. Your presence, your contributions, and your involvement create a mix that cannot be replicated. And if you are not a member of the HSS, please join us. In the end, it is our members who make all of this possible.

Jay Malone

HSS Executive Director

26 October 2009

OFFICERS & COMMITTEES

EXECUTIVE COMMITTEE

President, Jane Maienschein, Arizona State University

Vice-President, Paul Farber, Oregon State University

Secretary, Margaret J. Osler, University of Calgary

Treasurer, Adam J. Apt, Peabody River Asset Management

Editor, Bernard V. Lightman, York University

Executive Director, Robert J. Malone, History of Science Society (ex officio)

HSS COUNCIL

2007-2009

John Beatty

David Kaiser

Pamela O. Long

Karen Rader

Spencer Weart

2008-2010

Mordechai Feingold

Susan E. Lederer

Ronald Rainger

Nancy Siraisi

Thomas Söderqvist

2009-2011

Pamela Henson

Hans-Jörg Rheinberger

Jessica Riskin

Judy Johns Schloegel

Karen Reeds

Past President (2008-2009), Joan Cadden, University of California, Davis

STANDING COMMITTEE CHAIRS

Education, Michael Reidy, Montana State University

Honors and Prizes, Helena Pycior, University of Wisconsin, Milwaukee

Meetings and Programs, Rachel Ankeny, University of Adelaide

Publications, Ken Alder, Northwestern University

Research and the Profession, Pam Henson, Smithsonian Institution

Finances, Spencer Weart, American Institute of Physics

PROGRAM CO-CHAIRS

Cathryn Carson, University of California, Berkeley

Jessica Riskin, Stanford University

THANK YOU TO OUR VOLUNTEERS

Without our volunteers, the HSS would cease to function. Their talent, effort, and time provide us with the essential ingredients of a flourishing Society. The following members completed their terms of service this past year. Thank you for your gift to the History of Science Society!

HSS COUNCIL 2006-2008

Ken Alder

Katherine Pandora

Marsha Richmond

Alan Rocke

James Strick

HSS TREASURER

Rachel Ankeny

STANDING COMMITTEES

Education, Robert DeKosky (Chair), Jessica Wang

Honors and Prizes, Audra Wolfe (Chair)

Meetings and Programs, Marc Rothenberg (Chair), Don Howard,

Pamela O. Long, Marsha Richmond, Anita Guerrini

Publications, Karen Parshall (Chair)

Research and the Profession, Amy Crumpton (Chair)

Derek Price/Rod Webster Prize, Sachiko Kusukawa (Chair)

Nathan Reingold Prize, Marcos Cueto (Chair)

Margaret W. Rossiter Prize, Ida Stamhuis (Chair)

Pfizer Award, Susan Lindee (Chair)

Watson Davis and Helen Miles Davis Prize, Roger Stuewer (Chair)

Joseph H. Hazen Prize, Graeme Gooday (Chair)

Nominating Committee, Norton Wise, Pamela Smith, Katharine

Anderson, David Kaiser (Chair), Thomas Söderqvist

Women's Caucus, Gwen Kay (Co Chair)

DINING IN PHOENIX

IN THE HOTEL

Compass Restaurant, 602-440-3166,
serves dinner, has a lounge area

Einstein Bros. Café, 602-440-3185

Networks Bar and Grill, 602-440-
3198, serves lunch and dinner

Terrace Café, 602-440-3180,
serves breakfast and lunch

GROCERY STORE

NEAR THE HOTEL

Phoenix Public Market

Urban Grocery & Wine Bar

NEAR THE HOTEL

Arizona Club, 602-253-1121, dinner
602-253-1121, 201 N. Central Ave.
#3700, serves lunch Monday–Friday,
serves dinner Friday–Saturday

Carly's Bistro, 602-262-2759, 128
E. Roosevelt St., appetizers,
sandwiches, wraps, soups, and
salads, serves lunch and dinner

Cibo, 602-441-2697, 603 N. 5th Ave.,
salads, pizza, and wine, serves
lunch and dinner, closed Sunday

Durant's, 602-264-5967, 2611 N.
Central Ave., American-style
seafood and steakhouse, serves
lunch, dinner and cocktails
Monday–Friday, serves dinner
and cocktails Saturday–Sunday

COFFEE SHOPS

NEAR THE HOTEL

Drip Coffee Lounge, 602-795-
9905, 2325 N. 7th St.

Lola Coffee, 602-265-5652,
4700 N. Central Ave.

LUX Coffee Bar, 602-696-9976,
4404 N. Central Ave.

Royal Coffee Bar, 602-374-
8044, 209 W. Jackson

Starbucks, 602-534-8901,
125 N. 2nd St. # 100

Matador Mexican Food, 602-
254-7563, 125 E. Adams
St., Mexican food, serves
breakfast, lunch, and dinner

Matt's Big Breakfast, 602-
254-1074, 801 N. 1st St.,
American-style breakfast and
brunch, closed Monday

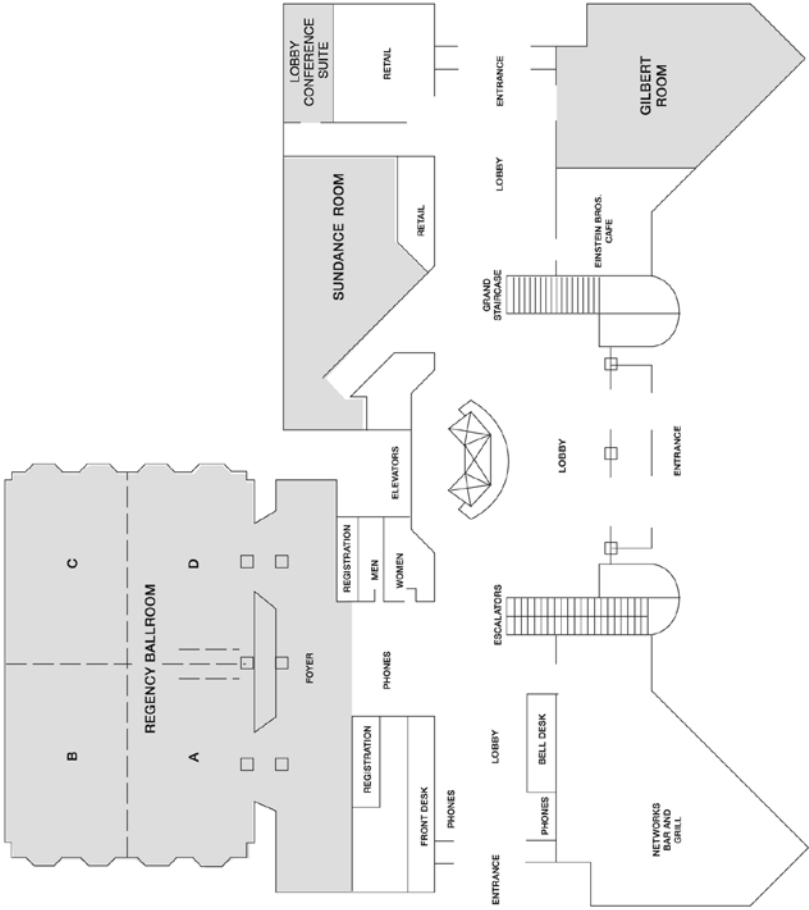
Palatte, 602-462-9400, 606 N. 4th
Ave., serves brunch and dinner,
closed Monday–Tuesday

Pizzeria Bianco, 602-258-8300, 623 E.
Adams St., pizza and salads, serves
dinner, closed Monday, reservations
available for groups of 6–10

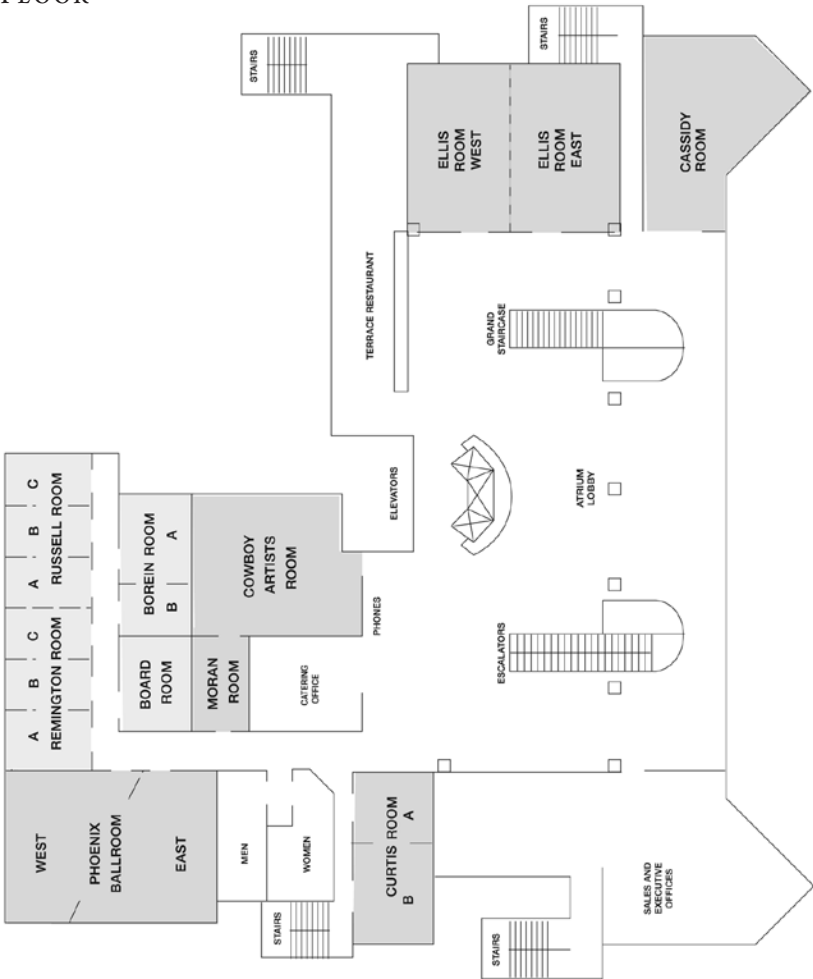
The Roosevelt, 602-254-2561,
816 North 3rd St., American-
style food and brewery, serves
dinner, closed Mondays

MEETING ROOMS

FIRST FLOOR



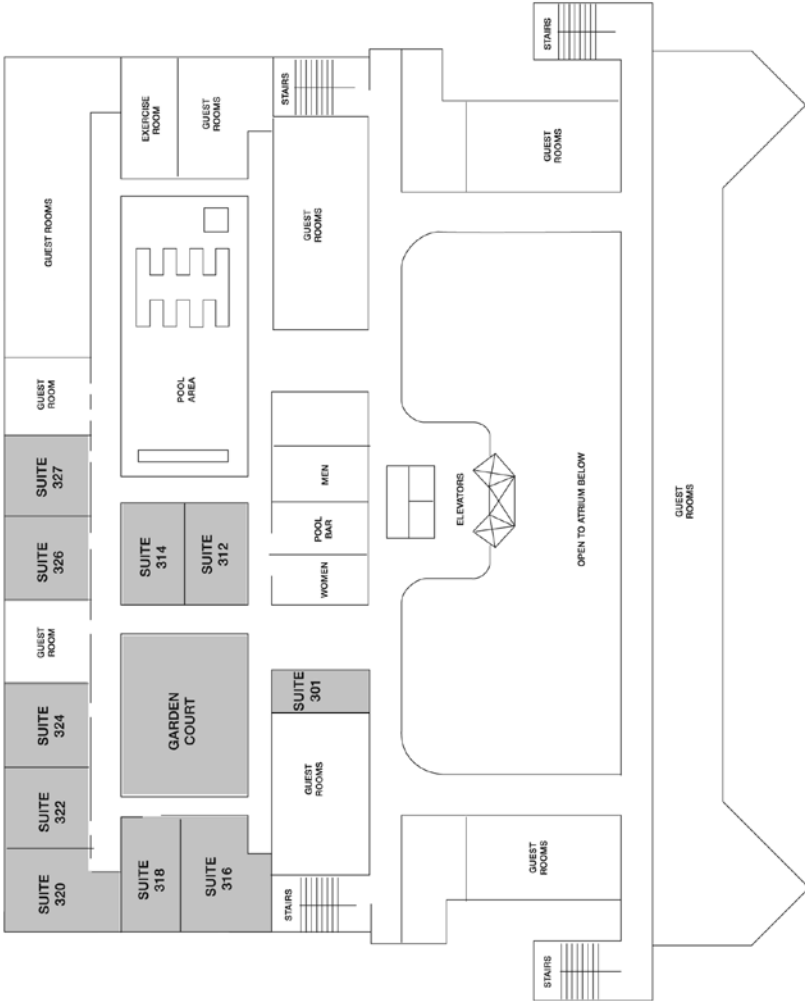
SECOND FLOOR



continued on page 8

MEETING ROOMS

THIRD FLOOR



BOOK EXHIBIT

HOURS

Thursday, 19 November: 7–8:30 pm
(Opening Reception from 7:30–8:30 pm)
 Friday, 20 November: 8 am–5 pm

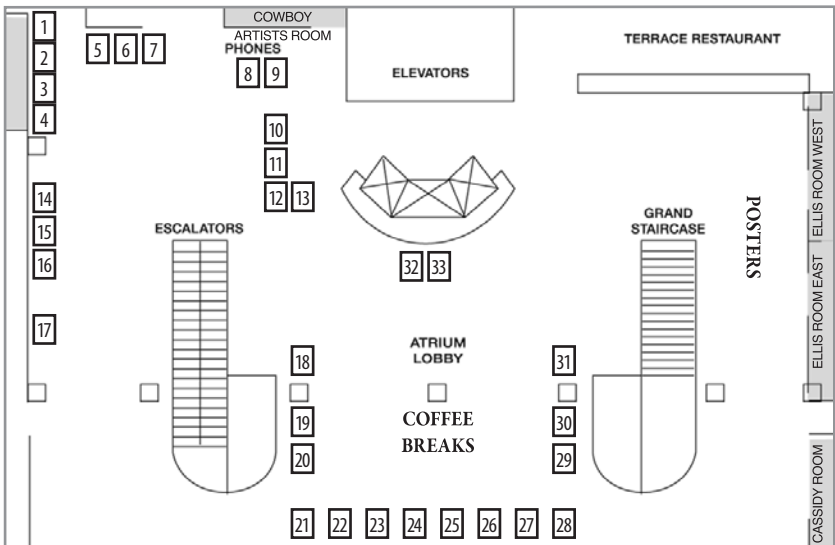
Saturday, 21 November: 8 am–5 pm
 Sunday, 22 November: 8 am–noon

VENDORS

table

Registration	1–4
Collective Book Exhibit	5–7
Chicago University Press	8–13
Johns Hopkins University Press	14–16
Harvard University Press	17
Huygens Institute	18
MIT Press	19–20
Scholar's Choice	21–28
Green Lion Press	29–30
Rutgers	31
B&L Rootenberg	32–33

SECOND FLOOR LOBBY



REGISTRATION DESK SCHEDULE

Thursday, 19 November: 3–7 pm

Friday, 20 November: 8 am–5 pm

Saturday, 21 November: 8 am–5 pm

Sunday, 22 November: 9 am–noon

THURSDAY SESSION SCHEDULE

9 AM–12 PM

Executive Committee Meeting

Board Room

1–5 PM

HSS Council Meeting

Cowboy Artists Room

5:30–7 PM

SPECIAL SESSION Science and Religion: Current Perspectives

Regency Ballroom C

Organizer: Jessica Riskin, Stanford University

Chair: Paula Findlen, Stanford University

Commentator: Ann M. Blair, Harvard University

PAPERS:

1. The Perils of Physico-Theology in Late Seventeenth-Century England, Stephen Gaukroger, University of Sydney & University of Aberdeen
2. Science and the Origins of “Religion,” Peter Harrison, University of Oxford

SPECIAL SESSION/ PANEL DISCUSSION: How Should We Write the History of Science?

Regency Ballroom D

Co-Organizers: Kenneth Manning, Massachusetts Institute of Technology, Jane Maienschein, Arizona State University

Chair: Kenneth Manning, Massachusetts Institute of Technology

PANELISTS:

1. Jane Maienschein, Arizona State University
2. William Newman, Indiana University
3. Thomas Levinson, Massachusetts Institute of Technology
4. Naomi Oreskes, University of California, San Diego

7–7:45 PM

First-Time Attendees and Mentor/Mentoree Reception

Ellis Room East

Graduate and Early Career Caucus Reception

Ellis Room West

7:30–8:30 PM

Opening Reception

Atrium

Cash Bar

8:30–9:15 PM

Earth & Environment Forum

Suite 312

* Indicates Organizer and Chair unless otherwise specified.

FRIDAY SESSION SCHEDULE

8 AM–5:30 PM

Commons Room Open

Suite 301

7:30–8:45 AM

Women's Caucus Business Meeting and Breakfast

Cassidy Room

Co-chairs: Marsha Richmond & Susan Rensing

9–11:45 AM (*break, 10-10:15 AM*)

Women's Strategies for Participating in Science

Cassidy Room

Sponsor: Women's Caucus

PAPERS:

1. 20th-Century Women Scientists Through the Decades: Changing Conscious and Unconscious Strategies, Nancy Slack, The Sage Colleges
2. Strategies of Participation by Subordination: Female Technical Assistants in Biological Research of the 20th Century, Helga Satzinger, Wellcome Trust Centre for the History of Medicine, University College
3. Strategies in the Cases of Two Pioneer Women Professors: Kristine Bonnevie and Tine Tammes, Ida H. Stamhuis, Free University Amsterdam
4. Sex and Gender in the Lab: The Strategies for Studying Sex Determination Employed by Anna Rachel Whiting and Phineas Wescott Whiting, *Marsha Richmond, Wayne State University

Beyond the Argument from Design: Natural Theology in Late Medieval and Early Modern Catholic Thought

Curtis Room A/B

Chair and Commentator: Mordechai Feingold, CalTech

PAPERS:

1. Astrology as Natural Theology in the

Later Middle Ages, Laura Smoller, University of Arkansas at Little Rock

2. Atheists, Politicians, and Natural Theology in the Work of Leonard Lessius, S.J., *Brian W. Ogilvie, University of Massachusetts, Amherst
3. Catholic Natural Theology in Italy after Galileo, Massimo Mazzotti, University of California, Berkeley
4. Noel-Antoine Pluche as a Jansenist Natural Theologian, *Ann M. Blair, Harvard University

Understanding Extinction

Borein Room A

Chair and Commentator: Phillip Sloan, University of Notre Dame

PAPERS:

1. The Fur Flies over Spotted Cats: Science and the Politics of Endangered Carnivores in the Age of Ecology, Mark V. Barrow, Jr., Virginia Tech
2. Extinction, Nature's Economy, and Natural Theology, Kevin J. Francis, Evergreen State College
3. Dying Americans: Race, Extinction and Conservation in the New World, Sadiya Qureshi, University of Cambridge
4. Bringing Dinosaurs Back to Life, Lukas Rieppel, Harvard University
5. A Victorian Extinction: The Great Auk, Alfred Newton, and Early Wildlife Protection, *Henry M. Cowles, Princeton University

The Many Lives of the Projector: Inventors and Charlatans, Philosophers and Statesmen in Elizabethan and Stuart England

Russell Room A–C

Chair and Commentator: Lesley

Cormack, Simon Fraser University

PAPERS:

1. "The good or bad success of this project": Projectors and the Fens, 1580–1630, Eric H. Ash, Wayne State University
2. Character of a Projector: Vernacular Representations of Technological Invention in Seventeenth-Century Comedies, Poems and Pamphlets, Jessica Ratcliff, University

FRIDAY SESSION SCHEDULE

9–11:45 AM (continued)

- of Illinois, Urbana-Champaign
- Francis Bacon, the Patent System, and the Utopian Reform of Invention, *Cesare Pastorino, Indiana University
 - Philosophizing Projectors and Projecting Philosophers: The Late Projects of Cornelis Drebbel (1572–1633), the Submarine and the Limits of Possibility in Early Modern Europe, Vera Keller, McGill University

Paraphrasing History: Naming, Translation, and Synonymy in Early Modern China and Japan

Borein Room B

Chair and Commentator: Ruth Rogaski, Vanderbilt University

PAPERS:

- Traduttore, Traditore: Constructing Science Via Translation in China 1600–1900, Benjamin A. Elman, Princeton University
- Anatomy of a Textual Monstrosity: Dissecting the *Mingli Tan* (De Logica, 1631), Joachim Kurtz, Emory University and the Max Planck Institute for the History of Science
- Radicle Translation: Synonymy and the Roots of Resemblance in Qing Natural History, *Carla Nappi, University of British Columbia
- Indexing Nature: Homonymy and Synonymy in Early Modern European and Japanese Encyclopedias of Natural History, Federico Marcon, University of Virginia

Understanding Complexity in Biological Systems

Phoenix Room East

Chair and Commentator: Ann Kinzig, Arizona State University

PAPERS:

- From Ecosystem to Complex Adaptive System: Shifting Strategies in Modern Ecology, Sharon E. Kingsland, Johns Hopkins University
- Reassembling the Pieces: Biological Systems and Systems Biology, James Collins, National Science Foundation
- The Superorganism; How Did We

- Come to Understand What It Is? Bert Hölldobler, Arizona State University
- Organisms, Systems, and Networks: Overlapping Paradigms to Explain Complexity in 20th-Century Biology, *Manfred Dietrich Laubichler, Arizona State University

Defining Applied Science in the Long 19th Century: Anglo-American Perspectives in International Contexts

Remington Room A–C

Chair and Commentator: James McClellan, Stevens Institute of Technology

PAPERS:

- From Art to Applied Science: The Discourse of Science and Industry in the 19th Century, Eric Schatzberg, University of Wisconsin, Madison
- Scientific Authority and the Civil Model: Science, and the State in Different Branches of Anglo-American Engineering, Jennifer Alexander, University of Minnesota
- Born in Translation: The Origins of the Phrase “applied science,” *Robert Bud, The Science Museum
- “Vague and artificial”: The Historically Elusive Distinction between Pure and Applied Science, Graeme J. Gooday, University of Leeds

SPECIAL SESSION I: Research and Pedagogy: A History of Quantum Physics through the Textbooks. (I) From the Origin to the Eve of Quantum Mechanics

Phoenix Room West

PAPERS:

- Drude’s *Lehrbuch der Optik*, Marta Jordi Taltavull, University of Barcelona/Max Planck Institute for the History of Science
- Against the Wind: Otto Sackur and His Daring *Lehrbuch der Physikalische Chemie*, *Massimiliano Badino, Max Planck Institute for the History of Science
- Fritz Reiche’s 1921 Quantum Theory Textbook, Clayton A. Gearhart,

FRIDAY SESSION SCHEDULE

- St. John's University (Minn.)
4. Sommerfeld's *Atombau und Spektrallinien*, Michael Eckert, Deutsches Museum
 5. Max Born's *Vorlesungen über Atommechanik*, Domenico Giulini, MPI for Gravitational Physics

The Psychological Society: Origins, Boundaries, Limits

Ellis Room East

Chair and Commentator: Greg Eghigian,
Pennsylvania State University

PAPERS:

1. The Utilitarian Self: The Neurosciences and Political Reform in Nineteenth-Century Britain, Cathy Gere, University of California, San Diego
2. On Hans, Rolf, and Others: Wonder Animals in French Psyical Research and Early Psychology, Sofie Lachapelle, University of Guelph and Jenna Healy, University of Toronto
3. Deception, the "Law of Economy," and the Making of Psychological Americans, *Michael Pettit, York University
4. Escaping the "Alien Framework": Indigenizing Psychology in India, Wade Pickren, Ryerson University

Networks/Communities in Early Modern Science

Ellis Room West

Chair and Commentator: Alix
Cooper, SUNY, Stony Brook

PAPERS:

1. Cultivating a Discipline: Marin Mersenne as Mathematical Intelligencer, *Justin Grosslight, Harvard University
2. The Camel's Face: Exotic Animals in the Sixteenth-Century Arts and Sciences, Daniel Margošy, Harvard University
3. "Rest assured, I expect some pretty things from Candia": Venetian Apothecaries and the World of Collecting, Valentina Pugliano, Oxford University
4. Contradictory Tropics: Columbian Geopolitics in Oviedo's Official Histories of the Indies, Nicolas Wey-Gomez, Brown University

SPECIAL SESSION: Session 1: Roundtable Discussion on Classification in Special Fields in the History of Science

Cowboy Artists Room

Organizer and Chair: Stephen Weldon,
University of Oklahoma

PAPERS:

1. History of Science and the Universal Decimal Classification (UDC), Elaine de Souza, Pontifical University of São Paulo
2. Sources on Medieval Arabic Science, Ana Maria Alfonso-Goldfarb, Pontifical University of São Paulo
3. Documents on Latin American Colonial Science, Márcia H.M. Ferraz, Pontifical University of São Paulo
4. Issues in Classification and Controlled Vocabulary: Experiences from Work in Nineteenth-Century American Science, Daniel Goldstein, University of California, Davis

12–1 PM

Committee on Meetings and Programs (CoMP)

Suite 322

12–1:15 PM

Forum for the History of the Mathematical Sciences Luncheon

Suite 320

12–12:30 PM

Forum for History of Science in America Business Meeting

Sundance Room

FRIDAY SESSION SCHEDULE

12:30–1:30 PM

Forum for the History of Science in America Distinguished Lecture, Quentin Wheeler, Arizona State University, “The History of Taxonomy is Just One Thing after Another”

Sundance Room

1–3 PM

Nominating Committee

Suite 324

1:30–3:10 PM

Mathematical Genealogies: Astronomy, Geometry, Number Theory

Borein Room A

Chair: Joseph Dauben, City University of New York

PAPERS:

1. Realism in Ptolemaic Astronomy: The Case of the Flawed Lunar Model, Liz Burns, University of Toronto
2. Geometrical Loci: Ancient and Modern, Sabetai Unguru, Tel-Aviv University
3. Hearing the Irrational: Music and the Development of the Modern Concept of Number, Peter Pesic, St. John's College
4. “Seeking Our Own Forerunner”: A Reappraisal of the Role of the Idea of “the Intellectual Sameness of Mankind” in Mei Wending's (1633–1721) Study of Western Mathematics, Shin Min Cheol, Seoul National University

Induction, Error, and Context: Problems in the Philosophy of Science

Borein Room B

Chair: Matt Chew, Arizona State University

PAPERS:

1. Jacopo Zabarella's Real Influence on Early Modern Science, John P. McCaskey, Stanford University

2. On Leaping to Conclusions Inductively: Interpretation and Anticipation in Bacon's Cosmological Reasoning, Daniel Schwartz, University of California, San Diego
3. Is it Wrong Not to Speak About Errors? Bart Karstens, University of Leiden
4. Autonomy and Delocalisation of Knowledge, Jouni-Matti Kuukkanen, University of Leiden

Manifold Forms of Natural Knowledge Transmission

Remington Room A–C

Chair: Kevin Chang, Academia Sinica, Taiwan

PAPERS:

1. To Popularize Medicine: A Study on Medicine and Society in China (10–12th Century), Ruixue Yan, Peking University
2. How Did Knowledge Circulate in Early Modern Natural History? Aldrovandi's Building Blocks, Fabian Krämer, Max Planck Institute for the History of Science
3. Early Recipe Books: Evidence of Non-Traditional Alchemy, Robin L. Gordon, Mount St. Mary's College
4. Botany between Knowledge and Science: Botany in the Romantic Vienna and “Voyages into the Flower Fields of Life,” Marianne Klemun, University of Vienna

Astronomy and Society

Russell A–C

Chair: Marc Rothenberg, National Science Foundation

PAPERS:

1. Hidden Eclipses and Misidentified Comets: Debate and the Extent of Astronomical Knowledge in 10th–12th Century Japan, Kristina Buhrman, University of Southern California
2. How Science Became Boring: Observational Astronomy in the 19th Century, Kevin Padraic Donnelly, Brandeis University
3. Frederik Kaiser, Popular Astronomy, and the Decline of Natural Theology, Frans van Lunteren, Leiden University
4. Educating Astronomers. The Astronomical Community, 1880–1940, David Baneke, Leiden University

FRIDAY SESSION SCHEDULE

Strains of Definition in 20th-Century Biology: E. Coli, Sex, Death, Life

Ellis Room East

Chair: Grace Sirju-Charran,
University of the West Indies

PAPERS:

1. Cultures of Cultures: Standardizing a Model Organism at the Yale E. Coli Genetic Stock Center, 1968–90, Tom Reznick, Yale University
2. How the X and Y became the Sex Chromosomes, Sarah S. Richardson, University of Massachusetts, Amherst
3. Researching Aging Under Glass: The Discovery of the Hayflick Limit and the Molecularization of Cellular Aging, 1961–92, Lijing Jiang, Arizona State University
4. Cell Model Experiments, Biosignatures and Microscopy in the 1930s: Wilhelm Reich's Bion Experiments, James E. Strick, Franklin and Marshall College

Technology Transfer: To, From, and Around East Asia

Ellis Room West

Chair: Grace Shen, York University

PAPERS:

1. The Typing Rebellion: Toward a Global History of the Chinese Typewriter, Thomas S. Mullaney, Stanford University
2. Engineers as the Agents of Science and Empire, 1880–1914, Xiao (Shellen) Wu, Princeton University
3. Japanese Chemistry and the Russo-Japanese War, Yoshiyuki Kikuchi, Massachusetts Institute of Technology
4. Self-Sufficiency for the Colony or for the Empire? The Alternative Technology at Central Research Laboratory in Korean Peninsula under Japanese Colonial Rule in the late 1930s, Taehee Lee, Seoul National University

Theories of Mind, Brain, and Cognition in Social Engagement

Cassidy Room

Chair: Stephen Casper, Clarkson University

PAPERS:

1. Giving Shape to the Common Brain:

Cerebral Organization and Political Unity in the 18th Century, Nima R. Bassiri, University of California, Berkeley

2. "Crazy, bedeviled, bewitched or something": Concepts of Insanity in the United States, 1800–43, Rachel N. Ponce, University of Chicago
3. Nervous Societies and the Fragmented Self: Sigmund Freud and Biological Psychiatry, Katja Guenther, Princeton University
4. Crisis and Method. Edmund Husserl's Logical Investigations in History of Economic Thought, Andreas Georg Stascheit, Dortmund University of Applied Sciences and Arts

Industrial and Technological Research Communities of the Mid-20th Century

Phoenix Room East

Chair: Dana Freiburger, University of Wisconsin, Madison

PAPERS:

1. Where are the I.G. Farben Observatories? The World of Industrial-Scientific Collaboration in German Astrophysics, Juan Andres Leon, Harvard University
2. The Formation of Spectroscopy Users' Group and the Changing Status of Spectroscopy, Mina Park, Massachusetts Institute of Technology
3. Fact, Fiction, and Fortran: Computers between Science and Engineering at MIT and Carnegie Tech, 1962–75, Andrew B. Mamo, University of California, Berkeley

Teaching the History of Science Using the Web

Phoenix Room West

Sponsor: The Committee on Education
Organizer and Chair: Michael Reidy,
Montana State University

PAPERS:

1. Online Images and Learning: Going Beyond Visual Aids, Kerry V. Magruder, University of Oklahoma
2. Blogging the Classroom? The Promise and Limits of Web 2.0 for Teaching the History of Science, Audra J. Wolfe, University of Pennsylvania
3. Your Daily History of Science:

FRIDAY SESSION SCHEDULE

1:30–3:10 PM (*continued*)

Blogging a Discipline, Michael D. Barton, Montana State University

3:10–3:30 PM

Coffee Break

Atrium

3:30–5:30 PM

Science as Empire? Natural Knowledge, Political Economy, and Imperial Governance in the Early Modern Atlantic World

Phoenix Room West

Chair: Robert Westman, University of California, San Diego

Commentator: Maria Portuondo, Johns Hopkins University

PAPERS:

1. Scientific Practices in the Iberian Atlantic: The Comprehension of the New World and the Construction of a Eurocentric World Picture, Mauricio Nieto Olarte, Universidad de los Andes (paper read by Camilo Quintero, Universidad de los Andes)
2. The Order of Nature and Empire at Stake: A Botanical Debate in the Spanish Atlantic (1792–1801), *Matthew J. Crawford, Kent State University
3. On the Practice of Collecting Natural Objects in the Spanish Context: Old Bureaucratic Devices for New Scientific Aims? 1712–1812, Marcelo Fabián Figueroa, European University Institute (paper read by Matthew J. Crawford, Kent State University)
4. Hernández Meets the Huitzitzilin: Natural Knowledge and Authority in the First Spanish Scientific Expedition, 1571–1651, Iris Montero, University of Cambridge

Popularizing and Policing “Darwinism” 1859–1900

Phoenix Room East

PAPERS:

1. Charles Kingsley: Darwin’s Other Bulldog, *Piers J. Hale, University of Oklahoma

2. Asa Gray: Design Theorist Among the Darwinians?, Thomas Russell Hunter, University of Oklahoma
3. St George Jackson Mivart: Theistic Evolutionist and Darwinian Outcast, John M. Lynch, Arizona State University
4. Anglo-American Popularisers of Evolution, 1859–1900, Bernard Vise Lightman, York University

Baroque Science

Russell A–C

PAPERS:

1. Making “Nothing, All”: Imagination, Passions, and Early Modern Science, Raz Chen-Morris, Bar-Ilan University
2. From Divine Order to Human Approximation: Mathematics in Baroque Science, Ofer Gal, University of Sydney
3. The Baroque Nature of Boyle’s New “Physico-Chymical” Science, *Victor Boantza, McGill University
4. Instruments and the Habits of Knowledge, Jean-Francois Gauvin, Harvard University

From Gibbs to Einstein, In Memory of Martin J. Klein

Ellis Room West

Chair: Jed Z. Buchwald, Caltech

PAPERS:

1. Einstein, Lorentz & M. Klein, A.J. Kox, University of Amsterdam & Caltech
2. Thermodynamics and Relativity: Einstein and Klein, Daniel Siegel, University of Wisconsin, Madison
3. Fathoming Max Planck: A Personal Account of Klein, Kuhn, and the Shaping of Quantum History, Allan Needell, Space History Division, NASM
4. Martin Klein and Chinese Studies in the History of Modern Physics, Danian Hu, The City College of the City University of New York
5. Fathoming Einstein: M. Klein & The Einstein Papers Project, *Diana Kormos Buchwald, CalTech

FRIDAY SESSION SCHEDULE

Beyond the Cabinet: Collections and Collecting in 20th-Century Science

Borein Room B

Chair: Robert Kohler, University of Pennsylvania

PAPERS:

1. Laboratories, Museums, and the Comparative Perspective: Alan A. Boyden's Serological Taxonomy, 1925–62, Bruno J. Strasser, Yale University
2. Building a Statistical Laboratory: A Collector's Tale, *Dan Bouk, Colgate University
3. Taking Stock: Situating and Standardizing Collection Practices in the International Biological Program, 1962–74, Joanna Radin, University of Pennsylvania
4. Accounting for Taste: Home Economists, Quantification, and Changing Eating Patterns in 20th-Century America, Gabriella M. Petrick, New York University

Techniques of the Subject in the Human Sciences

Remington Room A–C

Sponsor: The Forum for the History of Human Science

Chair: Ellen Herman, University of Oregon

Commentator: Henrika Kuklick, University of Pennsylvania

PAPERS:

1. Subjects of Delusion: Early 20th-Century Psychopathological Methods, *Susan Lanzoni, Massachusetts Institute of Technology
2. Seeing the Heart: Feeling Emotions, Otniel E. Dror, The Hebrew University
3. The Multiple Psychologies of Subjectivity: Accountings of Experiments in Mid-Century America, Jill Morawski, and Nicholas Alt, Wesleyan University

Mathematical Recreations and the History of Mathematics

Borein Room A

PAPERS:

1. Having Laid Great Wagers: Mathematical Instruments as Popular Culture in Early Modern England, *Kathryn James, Beinecke Library, Yale University

2. Franklin's Mathematical Recreations, Paul Pasles, Villanova University
3. Playing Cards and American Mathematical Learning, 1800–2000, Peggy A. Kidwell, Smithsonian Institution
4. WFF 'N PROOF and other Mathematical Recreations from the 1960s, David L. Roberts, Prince George's Community College

Technoscience, Past and Present

Ellis Room East

PAPERS:

1. Science and Power: Toward a History of Applied Science, Ann Johnson, University of South Carolina
2. Hybrid Experts in 18th-Century Prussia, *Ursula Klein, Max Planck Institute for the History of Science
3. Naturalizing Natural Knowledge in Tokugawa Japan: The Career of Hiraga Gennai (1729–79), Lissa Roberts, University of Twente
4. From Private Networks to Bureaucratic Procedures, Beate Ceranski, University of Stuttgart

Small Groups, Big Science

Cassidy Room

Commentator: Nathaniel Comfort,

Johns Hopkins University

Chair: Sejal Patel, National Institutes of Health

PAPERS:

1. The Board and the Ward: Practicing Ethics at the National Institutes of Health circa 1953, *Laura Stark, Wesleyan University
2. Smokers, Salons, and Small Groups: Modeling Society in Cold War America, Jamie Cohen-Cole, Yale University
3. Between the Doctor and His Plumber: Making Embryo Research Ethics Public, J. Ben Hurlbut, Harvard University

Coughing It Up to Everything Else: The Unnatural History of the Tobacco Industry

Cowboy Artists Room

Chair and Commentator: Angela

Creager, Princeton University

PAPERS:

1. Tobacco Industry Research on Smokers

FRIDAY SESSION SCHEDULE

3:30–5:30 PM *(continued)*

- and Smokers' Behavior in the Era of the Tobacco and Health Crisis, 1950–90, Louis M. Kyriakouides, The University of Southern Mississippi
2. Filter Farce or Filter Frustration? Dashed Faith in Big Science, and the Intractable Cigarette "Filter Problem," *Bradford C. Harris, Stanford University
 3. "It Has the Potential of Waking a Sleeping Giant": The Tobacco Industry's Private Debate on Publishing Internal Polonium Research, *Brianna Rego, Stanford University
 4. Agnotology in Action: The History of Popular Ignorance of Tobacco Harms as Revealed through the Tobacco Industry's Formerly Secret Archives, Robert N. Proctor, Stanford University

6–6:30 PM

Announcement of 2009 Awards and Prize Winners
Regency Ballroom C–D
(See program on page 32)

6:45–7:45 PM

HSS Distinguished Lecture
On Science as Historical Narrative



Regency Ballroom C–D
M. Norton Wise, University of California, Los Angeles
Introduction: Mary S. Morgan, London School of Economics

7:45–8:15 PM

Prize Winners' Reception
Regency Ballroom Foyer & Regency A Cash Bar

7:45–8:30 PM

Caltech's Bacon Prize Reception in Honor of Naomi Oreskes
Sundance Room
Open Bar

8–11 PM

Graduate and Early Career Caucus Reception
Suite 320

SATURDAY SESSION SCHEDULE

8 AM–5:30 PM

Commons Room Open

Suite 301

7:30–8:45 AM

Osiris Editorial Board

Suite 324

9–11:45 AM (*break, 10-10:15 AM*)

Reorienting Galileo in His Different Intellectual Traditions

Phoenix Room East

Chair: Domenico Bertoloni Meli,
Indiana University

PAPERS:

1. Practitioners, Galileo and the Emergence of Pre-Modern Mechanics, Matteo Valleriani, Max Planck Institute for the History of Science
2. Strange Realism: Galileo's Struggle with Astronomical Hypotheses, Mario Biagioli, Harvard University
3. Measuring the Heaviness of the Air: Teaching Galileo's "Two New Sciences" at the Jesuit Collegio Romano in the 17th Century, *Renee J. Raphael, University of Cambridge
4. Rethinking 1633: Writing about Galileo after the Trial, Paula Findlen, Stanford University

Producing Knowledge for Policy: Research Program Planning and Scientific Assessments

Cassidy Room

Chair and Commentator: Naomi Oreskes,
University of California, San Diego

PAPERS:

1. Collapse and Translation: How Scientists Assess the West Antarctic Ice Sheet, *Jessica O'Reilly, Princeton University and University of California, San Diego
2. Constructing Science and Politics in Global Affairs, Clark Miller, Arizona State University
3. Producing Knowledge for Policy: Ozone Depletion Science and Scientific Assessments,

Keynyn A. R. Bryse, Princeton University

4. The Past, Present, and Future of West Antarctica: Research on the Behavior of a Continent, 1957–90, William Thomas, American Institute of Physics

The Faces of Natural Theology: God's Book(s) of Nature?

Ellis Room West

Commentator: Christopher Hamlin,
University of Notre Dame

PAPERS:

1. Charles Bovelles: Natural Theology and the Harvest of Late Medieval Mysticism, *Richard Oosterhoff, University of Notre Dame
2. Lutherans Read the Book of Nature, Kathleen Crowther, University of Oklahoma
3. "Ex Naturae Libro Declarabimus": William Harvey and Natural Theology, Benjamin Goldberg, University of Pittsburgh
4. The Credible Audiences of the Natural Theology, Adam R. Shapiro, Huntington Library/ University of British Columbia

Envisioning and Implementing Science and Technology in Japan, 1860–1960

Borein Room

Commentator: James Bartholomew,
Ohio State University

PAPERS:

1. The Origin of Modern Developmentalism in Japan, Nobuhiro Yamane, Waseda University
2. Made For Japan: Sorting Silkworms and Standardizing Cocoons, *Lisa A. Onaga, Cornell University
3. Japanese Engineers and "Comprehensive Technology" in Wartime "Manchukuo" and China, 1931–45, Aaron S. Moore, Arizona State University
4. Securing "National" Food and Science: Examining Japan's Science on Whales, Fumitaka Wakamatsu, Harvard University

SATURDAY SESSION SCHEDULE

9–11:45 AM (continued)

Risk and Scientific Authority

Ellis Room East

PAPERS:

1. Science, Certainty, and the “Negro Question”: A Narrative of Life at Risk, 1896, Megan J. Wolff, Columbia University
2. Coronary Artery Disease and the Consolidation of Medical Authority, Todd Olszewski, National Institutes of Health
3. Making the Crash Barrier: Medical Authority, Engineering Culture, and Bureaucratic Practice in American Automotive Safety, 1966–80, Lee Vinsel, Carnegie Mellon University
4. “These rays that blast and wither but do not consume”: American Scientists’ Evolving Rhetoric on Radiation, 1895–1935, *Matthew B. Lavine, Mississippi State University
5. Mothers and Home Isolation in Early 20th-Century American Medical Practice, Bridget Collins, University of Wisconsin, Madison

SPECIAL SESSION (II) Research and Pedagogy: A History of Quantum Physics through the Textbooks. (II) Quantum Books in a Time of Fast Change

Phoenix Room West

Commentator: David Kaiser, Massachusetts Institute of Technology

PAPERS:

1. Van Vleck’s *Quantum Principles and Line Spectra* (1926), Michel Janssen, University of Minnesota
2. Teaching Quantum Physics in Cambridge, *Jaume (James) Navarro, Max Planck Institute for the History of Science/University of Cambridge
3. The Infancy of Quantum Statistics, Daniela Monaldi, Max Planck Institute for the History of Science
4. Pauli’s 1933 *Die allgemeinen Prinzipien der Wellenmechanik*, Don Howard, University of Notre Dame

Notes from Underground: Digging through Narratives in the Earth Sciences

Russell Room A–C

Commentator: Mott Greene,
University of Puget Sound

PAPERS:

1. Accounts of the New Madrid Earthquakes, Conevery Valencius, Harvard University
2. “Did You Feel It?” Earthquake Spotters in the Nineteenth-Century Alps, *Deborah R. Coen, Barnard College
3. The Chilean Earthquake and the Pulse of the Earth, Matthias Dörries, University of Strasbourg
4. Serpentine Histories: Thinking About Assembling California, Jon Christensen, Stanford University

Jesuit Science and Faith at the Margins of Empire: French and Spanish Missionary Botany, Surgery, and Natural History in the Colonial Atlantic World

Remington Room A–C

PAPERS:

1. Reevaluating and Assessing the American Sources of Nieremberg’s *Historia Naturae* (1635), Domingo Ledezma, Wheaton College
2. The Natural History of Secrets: The Jesuit Encounter with the Indigenous Knowledge Systems of French North America, Christopher M. Parsons, University of Toronto
3. The Blood of Christ and the Knowledge of Man: Jesuit Natural Philosophy and Medicine Confront Jesus’ Sacred Heart in 18th-Century Mexican Anatomical Analysis, Michelle Molina, Northwestern University
4. From the Rhetoric of Savagery to a Science of Race: Humans as a Category of Analysis in 18th-Century Jesuit Natural History, Río de la Plata, 1754–90, *Kristin L. Huffine, Northern Illinois University

SATURDAY SESSION SCHEDULE

A Question of Order? Standardizing Time, Space, and Self

Borein Room A

Commentator: Kenneth Alder,
Northwestern University

PAPERS:

1. Standard Timescales: Between Science and History, Jimena Canales, Harvard University
2. Standardizing Identity Pragmatically: Civil Status Standards in Imperial Germany, *Deborah A. Brown, University of California, Los Angeles
3. Interrupted Narratives: Standardizing Time on Indian Railways, Ritika Prasad, University of North Carolina, Charlotte
4. The Standardization of Space: Cartographic Grids and the Politics of Computation, William J. Rankin, Harvard University

SPECIAL SESSION: I've Got a Ph.D. in the History of Science, Now What? Historians at Work in a Down Economy

Cowboy Artists Room

Sponsor: The Graduate and Early Career Caucus

Organizer(s): Gina Rumore and Jacqueline Wernimont, University of Minnesota and Harvey Mudd College

Chair: Gina Rumore, University of Minnesota

Panelists:

1. National Science Foundation, Marc Rothenberg, National Science Foundation
2. Curator, Robert Bud, The Science Museum
3. Foundation Historian, Ronald Brashear, Chemical Heritage Foundation
4. Independent Scholar, Pamela O. Long
5. Film Maker, David Lebrun, Night Fire Films

12-1 PM

Graduate and Early Career Caucus Meeting

Cowboy Artists Room

12-1:15 PM

SPECIAL SESSION: Meet the Author of *American Hegemony and the Postwar Reconstruction of Science in Europe*

Sundance Room

Chair: Mary Jo Nye, Oregon State University

Commentator: John Krige, Georgia Tech

PAPERS:

1. Science and Cold War Secrecy: The Contents of Cold War Science, Ronald E. Doel, Florida State University
2. The Post WW2 Americanization of International Science and the Transnationalization of American Science, Zuoyue Wang, California State Polytechnic University, Pomona
3. The Contents of Cold War Science? Naomi Oreskes, University of California, San Diego
4. Resistance to American Hegemony: Neutralizing Science in Postwar European Scientific Organizations, Bruno J. Strasser, Yale University
5. European Science and U.S. Philanthropy: The Rockefeller Foundation between Communism and Anti-Communism, *Phina G. Abir-Am, Brandeis University & Scientific Legacies

12:00-12:30 PM

Forum for the History of Human Sciences Business Meeting

Gilbert Room

12:30-1:15 PM

Forum for the History of Human Sciences Distinguished Lecture "Imagining the Good Society: The Social Sciences in the American Past and Present"

Hamilton Cravens, Iowa State University

Gilbert Room

SATURDAY SESSION SCHEDULE

12:30–1:15 PM *(continued)*

Forum for the History of Science in Asia

Suite 312

12–2 PM

Committee on Finances

Suite 314

12–3 PM

Committee on Publications

Suite 324

1:30–3:10 PM

God, Soul, and Matter in Early Modern Cosmology

Phoenix Room West

Chair: Voula Saridakis, Lake Forest College

PAPERS:

1. Before Copernicus, Were the Celestial Orbs “fictions”? Peter Barker, University of Oklahoma
2. Kepler’s Astrology and the International Year of Astronomy, Patrick J. Boner, Johns Hopkins University
3. Newton’s Empiricism and the Emanation of Space in *De Gravitatione*, Mary A. Domski, University of New Mexico
4. Newton in North America: The Reception of Newton’s Theory of Comets in the Colonies, Tofiq Heidarzadeh, University of California, Riverside

Early Modern Engagements in the Study of the Earth and of Life: Magic, Religion, Physics, and History

Phoenix Room East

Chair: Jessica Riskin, Stanford University

PAPERS:

1. Franciscans at the Boundaries of the Natural and the Permissible in Early Modern Venice, Jonathan W. Seitz, Drexel University

2. The Toad in the Stone: Vitalism, Fertility and Earth History in Early Modern Europe, Lydia Barnett, Stanford University
3. André François Deslandes (1689–1757). History and Physics in Early 18th-Century France, Marita Huebner, University of California, Berkeley
4. Secularization of Science? A Case Study, Monika B. Gisler, ETH Zurich

Botany and Zoology Across Borders

Borein Room A

Chair: Fritz Davis, Florida State University

PAPERS:

1. Seeds of Knowledge: Dutch Botany in Brazil and Southeast Asia (1596–1696), Matthew B. Watts, University of Alabama
2. Imagining a Tropical Laboratory: U.S. Science in the Caribbean after 1898, Megan M. Raby, University of Wisconsin, Madison
3. At Home in the Wild: Ynes Mexia, Naturalist, Kathryn Davis, San Jose State University
4. Birds Over the Borders: Imperial Power and National Pride in U.S.–Colombia Scientific Relations, 1910–48, Camilo Quintero, Universidad de los Andes

Extreme Physics: Experimental and Theoretical Frontiers, 1860 to the Present

Borein Room

Chair: Suman Seth, Cornell University

PAPERS:

1. “No such spectrum as I expected!”: William Huggins and the Riddle of the Nebulae, Barbara J. Becker, University of California, Irvine
2. Leiden’s Quest for Cold and the International Temperature Scale 1927, Dirk van Delft, Museum Boerhaave / Leiden Observatory
3. On the Emergence of Deviant Science: The Opposition to the Theory of Relativity in the 1920s, Milena Wazeck, Max Planck Institute for the History of Science
4. The Multiple Ways to Decoherence, Fabio Freitas, Universidade Federal da Bahia

SATURDAY SESSION SCHEDULE

Food and Water: Public Health, ca. 1850–1950

Cassidy Room

Chair: Andrea Patterson, California State University at Fullerton

PAPERS:

1. Reasoning about Cholera: John Snow and the Miasma Theory of Disease, Dana Tulodziecki, University of Missouri, Kansas City
2. A Conflict of Analysis: Milk Adulteration and Analytical Chemistry in Victorian Public Health, Jacob A. Steere-Williams, University of Minnesota
3. “The Science of Living Begins at the Mouth”: When Nutrition Became a Part of Food and Eating, 1880–1920, Chin Jou, Princeton University
4. Food Psychology, Food Technology: Ancel Keys and the WW II Development of the K Ration, Sarah W. Tracy, University of Oklahoma

Alternative Pictures of Evolution

Russell Room A–C

Chair: Abigail Lustig, University of Texas

PAPERS:

1. How Darwin Drew the Primate Phylogenetic Tree, Joy Harvey, Independent Scholar
2. The Spencer-Weismann Dispute and Alternative Evolutionary Mechanisms in the 1890s, Trevor Pearce, University of Chicago
3. Morphogenesis, Slime Molds, and Searching for Shared Developmental Processes, Mary E. Sunderland, University of California, Berkeley
4. Sociobiology and the Superorganism, Abigail Lustig, University of Texas

Secret, Proprietary, and Privileged Knowledge

Remington Room A–C

Chair: Cathryn Carson, University of California, Berkeley

PAPERS:

1. Secrecy and the Bomb, From the Postwar to the Cold War, Alex Wellerstein, Harvard University
2. Fat Men, Not Little Boys: The Trinity Test and the Use of the First Atomic Bombs,

Bruce J. Hunt, University of Texas

3. Who Owns What? Private Ownership and the Public Interest in Recombinant DNA Technology in the 1970s, Doogab Yi, National Institutes of Health
4. Discriminating Appraisers: A Study in Historical GIS, Jennifer Light, Northwestern University

Workshop-Digital Media and the History of Science

Ellis Room West

Sponsor: The Committee on

Research and the Profession

Organizer: Dawn Digrius, Stevens Institute of Technology

Chair(s): Giny Cheong, George Mason University, Dawn Digrius, Stevens Institute of Technology

PAPERS:

1. What is Digital History? Trevor Owens, George Mason University
2. NINES, Dana Wheelles, University of Virginia/NINES
3. Teaching Digital History, Jeremy Boggs, George Mason University
4. Rethinking Archives, Rethinking Publishing: The Digital Humanities, Jo Guldi, University of Chicago

SPECIAL SESSION: Session 2: Roundtable Discussion on Classification in the History of Science in Different Media

Cowboy Artists Room

Organizer and Chair: Ana Alfonso-Goldfarb, Pontifical University of São Paulo

PAPERS:

1. Images as Documents for the History of Science: Some Remarks Concerning Classification, Maria Helena Rox Beltran and Vera C. Machline, Pontifical University of São Paulo
2. Management of Digital Media in History of Science, Silvia Waisse Priven, Pontifical University of São Paulo

SATURDAY SESSION SCHEDULE

1:30–3:10 PM *(continued)*

3. Classification Issues Related to Metadata, Software Archives, and Virtual Objects, Henry Lowood, Stanford University Libraries
4. Information Retrieval in History of Science Resources on Internet: The End of Classifications?, Christine Blondel, CNRS, CRHST

SPECIAL SESSION: History of Science in Film: A Screening of “Proteus” and a Conversation with Director David Lebrun

Regency Ballroom C

Organizer: Lynnette Regouby, University of Wisconsin, Madison

SPECIAL SCREENING:
“Proteus,” David Lebrun, Night Fire Films

1:30–3:30 PM

Poster Session

Atrium, 2nd floor

POSTERS:

1. Cognitive Illusions and the Evolution of Science, Burton H. Voorhees, Athabasca University
2. International Year of Astronomy. Celebrating the Publication of Kepler’s *Astronomia Nova*, 1609: Kepler’s Construction of the First-Ever Planetary Orbit, A.E.L. Davis, Imperial College, London
3. Computers and the Visual Language of Paleobiology, David Sepkoski, University of North Carolina, Wilmington
4. The Geography of Transnational Scientific Correspondence during the Revolutionary and Napoleonic Era, Elise S. Lipkowitz, Northwestern University
5. A New History of the Discovery of the 20 Canonical Amino Acids, Rachel Rodman, University of Wisconsin, Madison
6. Historical Scholarship and Digital Archival Collections: The Contagion and Expeditions and Discoveries Websites at the Open

- Collections Program at Harvard University, Rebecca H. Wingfield, Harvard University
7. The Changing Place of Mathematics at U.S. Universities: 1865–80, Andy Fiss, Indiana University
8. The Rise of Radio Astronomy in the Netherlands: 1944–56, Astrid Elbers, Leiden University
9. The Significance of Experience in the Periphery. Engineers from the First World in the Second Half of 19th-Century Chile, Jaime Parada, Universidad Finis Terrae and Universidad Católica de Chile
10. Global Science from a Dutch Perspective: Dutch Participation in 19th-Century Humboldtian Networks, Azadeh Achbari, Free University Amsterdam
11. The Pasteurization of American Mushroom Caves: A Study in Mycological Secrecy, Greg Brick, University of Minnesota
12. The Air-Pump at the Princely Court: Natural Philosophy or Useful Technology?, Peter Schimkat, Independent Scholar
13. Domestication & Decline: The Degeneration Thesis of Curt P. Richter, Nicholas E. Blanchard, Oregon State University

3:10–3:30 PM

Coffee Break

Atrium

3:15–4 PM

Newsletter Advisory Committee

Suite 322

3:30–5:30 PM

The Dutch Descartes: Empiricism and Medicine

Borein Room A

Chair: Lisa Shapiro, Simon Fraser University

PAPERS:

1. Descartes and Medical Cartesianism, Harold J. Cook, Wellcome Trust Centre for the

SATURDAY SESSION SCHEDULE

History of Medicine at University College

2. Cartesian Sex. René Descartes, Dutch Physicians and the Problem of Procreation in the 17th Century, Eric Jorink, Huygens Institute (Royal Dutch Academy of Arts and Sciences)
3. Christiaan Huygens and the Limits of Mechanism, *Rienk H. Vermij, University of Oklahoma

Panel Discussion: Federal Funding Opportunities in the History of Science

Borein Room B

Panelists:

1. *Julia Huston Nguyen, National Endowment for the Humanities
2. Frederick Kronz, The National Science Foundation
3. Robert L. Martensen, National Institutes of Health

Collaborations in 20th- Century Mathematics

Ellis Room West

PAPERS:

1. Unwilling Collaborations: Mathematics and the Ethics of Professional Responsibility During the Cold War, Sarah Bridger, Columbia University
2. "If you would consider a woman...": Gertrude Cox and Collaboration in Experimental Statistics 1940–64, Edith D. Sylla, North Carolina State University
3. Gertrude Cox and Ronald Fisher: Two Statistical Pioneers Often Collaborate and Sometimes Collide, *Nancy S. Hall, University of Delaware

Practicing Borderland Science: Medical Physics and the Production of Biological Knowledge

Cassidy Room

Commentator: Nicolas Rasmussen, University of New South Wales, Australia

PAPERS:

1. Medical Physicists, Biology and the Physiology of the Cell (1920–40), Alexander Schwerin, Technical University, Brunswick, Germany
2. "Whither Medical Physics"? Medical Physics in Britain, 1943–60, Alison Kraft, University of Nottingham
3. Circuit Morphology: Interwar Medical Physics and the Excitable Cell, *Max Stadler, Imperial College

Speaking of Darwin: The Meaning and Application of Evolution in the 20th Century

Phoenix Room East

Chair and Commentator: Vassiliki (Betty) Smocovitis, University of Florida

PAPERS:

1. "The Great Grandfather of Hybrid Corn": Charles Neo-Darwin & Identity Formation among the Maize Hybridizers, Theodore Varno, University of California, Berkeley
2. Evolution in the Biological Sciences Curriculum Study: How the Modern Synthesis Permeated 1960s American Classrooms, Joy Rankin, Yale University
3. Between the Two Biologies: Competing Visions of Molecular Evolution, *Sage R. Ross, Yale University

The Paris Academy of Sciences in Print

Remington Room A–C

Chair and Commentator: Lawrence Principe, Johns Hopkins University

PAPERS:

1. The *Histoire des Animaux* and the Early Publication Projects of the Paris Academy of Sciences, Anita Guerrini, Oregon State University
2. Paper Voyages: Publishing the Paris Academy of Sciences' Scientific Expeditions, *Florence C. Hsia, University of Wisconsin, Madison
3. Mathematics, Print Culture, and the Paris Academy of Sciences, Robin Rider, University of Wisconsin, Madison

SATURDAY SESSION SCHEDULE

3:30–5:30 (*continued*)

The Known and the Lived: Science and Experience in 20th-Century Biology, Physics and Earth Sciences

Phoenix Room West

Commentator: Adelheid Voskuhl,
Harvard University

PAPERS:

1. Cell Cultures and the Specificity of Life: From Philosophy of Biology to Histories of the Organism, Isabel Gabel, Columbia University
2. Turbulent Times: Pilots, Physicists, and the Problem of Scale, Daniela Helbig, Harvard University
3. Earthrise, or the Globalization of the World Picture, *Benjamin Lazier, Reed College

Scientific Conventions in Third Republic France

Cowboy Artists Room

Chair: Scott A. Walter, University of Nancy
Commentator: Theodore Porter, University
of California, Los Angeles

PAPERS:

1. Conventionalism in Practice: Einstein, Poincaré and the Shape of Lightwaves, Scott A. Walter, University of Nancy
2. Conventionality, Dimensionality, Simultaneity: What Was Poincaré Thinking?, Connemara Doran, Harvard University
3. Conventions and the Organization of Research at the Fin De Siècle, *Alex Csiszar, Harvard University

Listening, Attention: Performance and Perception in German Concert Culture, 1865–1965

Russell Room A–C

Commentator: Sally Kitch,
Arizona State University

PAPERS:

1. The Aesthetics of Attention: Ernst Mach's Accommodation Experiments, His Musical Aesthetics, and His Friendship

with Eduard Kulke, *Alexandra E.
Hui, Mississippi State University

2. Listening to the Body Electric. Experimental Physiology, Sound Knowledge, and the Telephone in the Late 19th Century, Axel Volmar, University of Siegen
3. Listening to Emotions. Musical Hermeneutics and the Concert Hall in the Culture of the Fin de Siècle, Hansjakob Ziemer, Max Planck Institute for the History of Science

Practices of Science in Modern India

Ellis Room East

Chair: Asif Siddiqi, Fordham University

PAPERS:

1. Constructing Bhadrakok Physics: Images and Practices of Modern Science in Early 20th-Century India, *Somaditya Banerjee, University of British Columbia
2. The Importance of Being Nuclear: Science and State Formation in India, Jahnvi Phalkey, Georgia Tech/Lorraine
3. Ninety: A Story of Indian Thorium, Jaideep A. Prabhu, Vanderbilt University

6–11 PM

Society Reception, Museum Tour and Dinner Buffet

Heard Museum, 2301 N. Central Avenue

Volunteers in the main lobby will guide guests to the light rail station (the Heard is a ten-minute ride away). The first 200 guests will receive a free light-rail pass. A bus at the Monroe Street entrance will be available to begin transporting guests to and from the Heard, 6:15 PM until the event ends. A buffet dinner will be served from 6:45–10 PM.

SUNDAY SESSION SCHEDULE

9–10 AM

HSS Business Meeting

Cowboy Artists Room
(Agenda printed on page 33.)

10 AM–12 PM

Drawing in Print Culture: Why Cartoons Matter to the History of Science

Phoenix Room East

Chair: Bert Hansen, Baruch College
Commentator: Constance Clark,
Worcester Polytechnic Institute

PAPERS:

1. Science Most Attenuated: The Entertaining and Educational Development of Television Weather Cartoons, *Roger Turner, University of Pennsylvania
2. Demoning Evolution: Fundamentalist Cartoons from the Scopes Era, Edward B. Davis, Messiah College
3. Graphic Tales of Cancer in Modern America, Michael Rhode, National Museum of Health and Medicine & J.T.H. Connor, Memorial University

Eugenics after 1945

Russell Room A–C

Commentator: Philippa Levine,
University of Southern California

PAPERS:

1. From Neon Genesis to Ectogenesis: The Phenomenology of Posthuman Eugenics in Japan, Jennifer Robertson, University of Michigan, Ann Arbor
2. Old Eugenics, New Eugenics, and the Long 20th Century, *Alison Bashford, Harvard University

Historical Science in Historical Science: Historical Records as Scientific Evidence

Cassidy Room

Chair: David Spanagel, Worcester
Polytechnic Institute

PAPERS:

1. Past as Prediction: Victorian Scientists on Ancient Eclipses and the Power of Science, *Matthew Stanley, New York University
2. Dr. Velikovsky's Catastrophic World: Historical Evidence and Cosmological Conflict in the Construction of Scientific Boundaries, Michael D. Gordin, Princeton University
3. Antiquities, Artifacts, and Agriculture: The Intersection of Natural and Human History in Early Modern Britain, Elizabeth E. Yale, Harvard University

Families, Households and Scientific Work in France, 1620–1750

Curtis Room A/B

PAPERS:

1. Family Status and Engineering Authority: The Case of Pierre-Paul Riquet and the Canal du Midi, Chandra Mukerji, University of California, San Diego
2. The Family in the Network of Scientific Creativity: The Case of Claude Perrault, 1666–88, *Oded Rabinovitch, Brown University
3. Natural History Household: Réaumur and Hélène Dumoustier, Mary Terrall, University of California, Los Angeles
4. Scientific Families: Emilie du Châtelet and the Domestic Intellectual, Meghan Roberts, Northwestern University

SUNDAY SESSION SCHEDULE

10 AM–12 PM (*continued*)

States, Institutions, and Cultures of High Latitude Science During the 20th Century

Borein Room B

Chair and Commentator: Michael Robinson, University of Hartford

PAPERS:

1. Bona Fides and Indiscretions: Defining Scientists and Explorers in the Interwar Canadian North, Christina Sawchuk, Scott Polar Research Institute, Cambridge University
2. Heroes in the Age of Polar Aviation, 1925–30, Marianne Cronin, University of Toronto
3. Ivory Towers and Icy Frontiers: Cambridge and British Polar Exploration, 1920–58, *Peder Roberts, Stanford University
4. Memory and Legacy: The Divergent Fate of the International Biological and Geophysical Polar Years, Michael T. Bravo, Cambridge University

Models as Technologies of Conciliation in the Early Modern Republic of Letters

Ellis Room West

Chair: Matt Jones, Columbia University

PAPERS:

1. Orreries and Bowling Greens. Real and Imaginary Models in “familiar” Introductions to Astronomy, c. 1730–80, Florence Grant, King’s College, London
2. Teaching the “Esprit Philosophique”: Exemplars and Encyclopedism in the Pedagogy of Étienne Bonnot de Condillac, Jeff Schwegman, Max Planck Institute for the History of Science
3. Restitution, Plans and Knowledge in Architecture and Natural Philosophy, ca. 1650–1750, Alexander Wragge-Morley, Cambridge University
4. Models, Philanthropy and Affective Seeing in 18th-Century Halle, *Kelly J. Whitmer, Max Planck Institute for the History of Science

Knowledge and Practice in Medieval and Early Modern Europe

Borein Room A

Chair: William Eamon, New Mexico State University

PAPERS:

1. *Translatio* as Scientific Practice: Chaucer as “Lewd Compilator” of the *Treatise on the Astrolabe*, Elly Truitt, Bryn Mawr College
2. Universalizing Nature: Prediction and Observation in Renaissance Astrometeorology, Darin Hayton, Haverford College
3. Making Remedies as *Wissenschaft* in Early Modern Germany, *Alisha Rankin, Tufts University

Beyond Evolution vs. Special Creation: The Complexity of the Species Question in the Age of Darwin

Phoenix Room West

PAPERS:

1. The Autogenesis of Species in German Science, 1790–1860, Nicolaas Rupke, Göttingen University
2. “[A]s we rise in the animal scale”: Recapitulation, Progressive Development, and Teaching Comparative Anatomy in 1835 Britain, James Elwick, York University
3. Darwin’s “Conversion” Reconsidered (Again!), Paul D. Brinkman, North Carolina Museum of Natural Sciences
4. Darwin’s Methodologically Conservative Revolution, *Richard Bellon, Michigan State University

SUNDAY SESSION SCHEDULE

Making Earth Science: Practices, Concepts, Things

Ellis Room East

Chair: William Newman, Indiana University

PAPERS:

1. How American were the 49ers? The Transmission of Prospecting Knowledge from Germany to America, Warren Dym, Huntington Library
2. Earth, Wind, Water and Mining Machines: Leibniz, Andre Wakefield, Pitzer College
3. Archaeology and Erudition: Serapis and Sues, *Ernst Hamm, York University

Photography and Authenticity in 19th-Century Science

Remington Room A-C

Chair: Jennifer Tucker, Wesleyan University

PAPERS:

1. W.H.F. Talbot and Roger Fenton at the British Museum. Photographs as Proxy in 19th-Century Assyriology, Mirjam Brusius, Cambridge University
2. Is Photography Trustworthy? Depicting Antiquity in the 19th-Century Archaeology, Stefanie Klamm, Max Planck Institute for the History of Science
3. Authenticating Nature: Situating Photographic Trust in the Late 19th-Century Scientific Periodical Press, *Geoff Belknap, Cambridge University
4. Portraits of a Spark: Authenticating the Invisible in Victorian Physicists' Images of Electricity, Chitra Ramalingam, Harvard University

**JOIN US IN MONTREAL
FOR THE 2010 MEETING
4-7 NOVEMBER**

HSS 2009 AWARDS CEREMONY PROGRAM

FRIDAY, 19 NOVEMBER, 6 PM
REGENCY BALLROOM C-D

Welcome

Executive Director, Robert J. Malone

Recognition

Program Co-Chairs
Committee on Meetings and Programs Chair
Local Arrangements Committee Chair

In Memoriam Pictorial

Announcement of Interest Group Prizes

Forum for the History of Human Sciences
Forum for the History of Science in America

History of Science Society Prizes

Nathan Reingold Prize for best essay by a graduate student
Joseph H. Hazen Education Prize for excellence in education
Derek Price/Rod Webster Prize for best article in Isis
Margaret W. Rossiter History of Women in Science Prize for best book on the role of women in science
Watson Davis and Helen Miles Davis Prize for best book for a general audience
Pfizer Prize for best scholarly book
Sarton Medal for lifetime scholarly achievement
Citation read by William Newman

Conclusion

Robert J. Malone

*After the awarding of the prizes, please stay for the 2009 HSS Distinguished
Lecture, given by M. Norton Wise. Introduction by Mary S. Morgan.*

HSS 2009 BUSINESS MEETING AGENDA

SUNDAY, 22 NOVEMBER, 9 AM
COWBOY ARTISTS ROOM

All HSS members are welcome. Refreshments will be served.

President's Welcome

Jane Maienschein

Approval of Minutes

Executive Director's Report

Jay Malone

Editor's Report

Bernie Lightman

Treasurer's Report

Adam Apt

Committee Reports

Synopsis by Jay Malone

New Business

Electronic copies of the reports are available.

Please log on to www.hssonline.org/meeting and look for the Business Meeting link.

An odyssey through the history of the philosophy of science with a compelling human-centered vision.

"Tauber's argument relocates modern science inside a tradition of public discourse and human values. One of the most perceptive contributions to this debate in recent years."

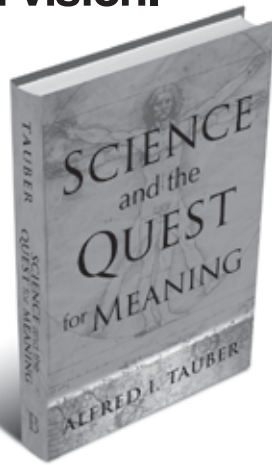
– *Janet Browne, Aramont Professor of the History of Science, Harvard University*

"An original, comprehensible, and plausible intellectual framework to rejuvenate the dialogue between science and the humanities."

– *Gilberto Corbellini, Professor of Bioethics and History of Medicine, Sapienza-University of Rome*

"Liberating. Who would have expected a book that begins with positivism and Quine to end with Thoreau?"

– *Alasdair MacIntyre, Research Professor, University of Notre Dame*



Available at The Scholar's Choice table

978-1-60258-210-1

\$29.95 / Cloth



BAYLOR UNIVERSITY PRESS

baylorpress.com / 1-800-537-5487 / BECOME A FAN.





UNIVERSITY OF
CALIFORNIA PRESS
JOURNALS + DIGITAL PUBLISHING

HISTORICAL STUDIES IN THE NATURAL SCIENCES



EDITORS //

Cathryn Carson, Hasok Chang,
Matthias Dörries, A.J. Lustig,
and W. Patrick McCray

DETAILS //

ISSN: 1939-1811

eISSN: 1939-182X

2009: Vol 39

February, May, August, November

Historical Studies in the Natural Sciences charts the intellectual and social history of the physical sciences and experimental biology since the 17th century. Widely regarded as the leading journal in the historiography of science and technology, *HSNS* increased to quarterly publication in 2008 to expand its roster of pioneering articles and notable reviews by the most influential writers in the field.

WWW.UCPRESSJOURNALS.COM

CAMBRIDGE

GREAT MINDS COME FROM GREAT BOOKS

The Cambridge History of Science

Series Editors:

David C. Lindberg
Ronald L. Numbers

The Cambridge History of Science*

Volume 6: Modern Life and Earth Sciences

Edited by Peter J. Bowler
and John V. Pickstone



Technological Medicine

The Changing World of Doctors and Patients

Stanley J. Reiser

Making Minds and Madness*

From Hysteria to Depression

Mikkel Borch-Jacobsen

Heisenberg in the Atomic Age

Science and the Public Sphere

Cathryn Carson

**Available in hardback and paperback.*

Numerical Notation

A Comparative History

Stephen Chrisomalis

The Kaiser Wilhelm Society under National Socialism

Susanne Heim,
Carola Sachse,
and Mark Walker

The Untilled Garden*

Natural History and the Spirit of Conservation in America, 1740-1840

Richard W. Judd
Studies in Environment and History

2008 Society for the History of Technology Edelstein Prize

Heroes of Invention
Technology, Liberalism and British Identity, 1750-1914

Christine MacLeod
Cambridge Studies in Economic History – Second Series

Seduced by Secrets

Inside the Stasi's Spy-Tech World

Kristie Macrakis

Charles Darwin in Australia

Frank Nicholas
and Jan Nicholas

2nd Edition

Creating Abundance*

Biological Innovation and American Agricultural Development

Alan L. Olmstead
and Paul W. Rhode

The Two Cultures Controversy

Science, Literature and Cultural Politics in Postwar Britain

Guy Ortolano

Now in Paperback!

Dictatorship of the Air*

Aviation Culture and the Fate of Modern Russia

Scott W. Palmer
Cambridge Centennial of Flight

Missiles for the Fatherland

Peenemünde, National Socialism, and the V-2 Missile

Michael B. Petersen
Cambridge Centennial of Flight

2009 Society for the History of Technology Edelstein Prize

Guns, Race, and Power in Colonial South Africa

William Kelleher Storey
African Studies

Humanity's Burden*

A Global History of Malaria

James L. A. Webb, Jr.
Studies in Environment and History

www.cambridge.org/us/



CAMBRIDGE UNIVERSITY PRESS

1584 • 2009

125 YEARS OF CAMBRIDGE
1847-1972



Chemical Heritage Foundation

Beckman Center for the History of Chemistry

2010–2011 Fellowship Opportunities in the History of the Chemical and Molecular Sciences, Technologies, and Industries

Several fellowships at the **Chemical Heritage Foundation** (CHF), an independent research center in Philadelphia, are offered to scholars through CHF's Beckman Center for the History of Chemistry for the academic year 2010–2011. Recipients of all fellowships are expected to participate in and make a contribution to CHF's intellectual life. The research collections at CHF, where the chosen fellows will be in residence throughout their fellowship period, range chronologically from the fifteenth century to the present and include 6,000 rare books, significant archival holdings, thousands of images, and a large artifact and fine arts collection, supported by over 100,000 reference volumes and journals. Within the collections there are many areas of special strength, including: alchemy, mining & metallurgy, dyeing and bleaching, balneology, gunpowder and pyrotechnics, gas lighting, books of secrets, inorganic and organic chemistry, biochemistry, food chemistry and pharmaceuticals.

Research projects undertaken by CHF fellows must relate in some way to the history or sociology of chemistry and related sciences, technologies, and industries. They can cover a broad chronological range and be interdisciplinary in nature. The more the research project relates to the Library & Special Collections holdings at CHF, the better the chances of obtaining a fellowship.

Postdoctoral Fellowships

9 Months in Residence; open to PhD scholars (PhD awarded by July 2010)
Amount of award: \$43,000 (+\$2,000 research & travel allowance)

Dissertation Fellowships

9 Months in Residence; open to graduate students at the dissertation stage
Amount of award: \$25,000 (+\$1,000 research & travel allowance)

Short-Term Fellowships

1–6 Months in Residence; open to all scholars and researchers
Amount of award: \$3,000 per month

Application Deadline: 15 February 2010

For further information visit www.chemheritage.org
The application directions and forms will be available on our Website from October 2009 onwards.

Send inquiries to

Fellowship Coordinator, Chemical Heritage Foundation
315 Chestnut Street, Philadelphia, PA 19106-2702
Tel: 215-925-2222 Fax: 215-629-5269
E-mail: fellowships@chemheritage.org

History of Science

NEW FROM CHICAGO



SCIENCE FOR ALL
The Popularization of Science in Early Twentieth-Century Britain
PETER J. BOWLER
CLOTH \$45.00

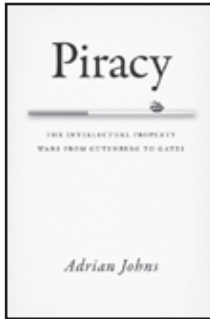
EPIDEMIC INVASIONS
Yellow Fever and the Limits of Cuban Independence, 1878–1930
MARIOLA ESPINOSA
PAPER \$22.50

A TENTH OF A SECOND
A History
JIMENA CANALES
CLOTH \$35.00

KNOSOS AND THE PROPHETS OF MODERNISM
CATHY GERE
CLOTH \$27.50

CONTESTED MEDICINE
Cancer Research and the Military
GERALD KUTCHER
CLOTH \$35.00

UNSIMPLE TRUTHS
Science, Complexity, and Policy
SANDRA MITCHELL
CLOTH \$27.50



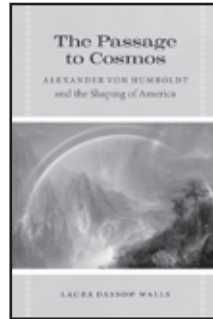
PIRACY
The Intellectual Property Wars from Gutenberg to Gates
ADRIAN JOHNS
CLOTH \$35.00

THE ENGLISH VIRTUOSO
Art, Medicine, and Antiquarianism in the Age of Empiricism
CRAIG ASHLEY HANSON
CLOTH \$50.00

MODERN NATURE
The Rise of the Biological Perspective in Germany
LYNN K. NYHART
CLOTH \$45.00

SOJOURNERS IN A STRANGE LAND
Jesuits and Their Scientific Missions in Late Imperial China
FLORENCE C. HSIA
CLOTH \$45.00

Now in paperback
THE TRAGIC SENSE OF LIFE
Ernst Haeckel and the Struggle over Evolutionary Thought
ROBERT J. RICHARDS
PAPER \$25.00



THE PASSAGE TO COSMOS
Alexander von Humboldt and the Shaping of America
LAURA DASSOW WALLS
CLOTH \$35.00

THE DAWN OF GREEN
Manchester, Thirlmere, and Modern Environmentalism
HARRIET RITVO
CLOTH \$26.00

SECRET SCIENCE
Spanish Cosmography and the New World
MARÍA M. PORTUONDO
CLOTH \$45.00

THE PALEOBIOLOGICAL REVOLUTION
Essays on the Growth of Modern Paleontology
Edited by DAVID SEPKOSKI and MICHAEL RUSE
CLOTH \$65.00

THE DISORDERED POLICE STATE
German Cameralism as Science and Practice
ANDRE WAKEFIELD
CLOTH \$45.00

VISIT OUR BOOTH FOR A 20% DISCOUNT ON THESE AND RELATED BOOKS.



THE UNIVERSITY OF CHICAGO PRESS • www.press.uchicago.edu

JOURNALS from Chicago



Isis

An International Review Devoted to the History of Science and its Cultural Influences

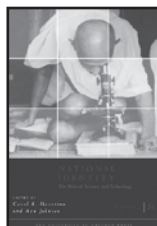
Sponsored by The History of Science Society

Isis features scholarly articles, research notes, and commentary on the history of science, medicine, and technology, and their cultural influences. Subscriptions to *Isis* and *Osiris* are bundled with membership in the History of Science Society.

OSIRIS, Volume 24

National Identity: The Role of Science and Technology

The essays in *National Identity* explore the ways in which modern science and the nation-state have interacted since the Enlightenment. With examples drawn from a variety of Eastern and Western nation-states, the authors argue that scientific ability became a marker of national character.



Philosophy of Science

Sponsored by the Philosophy of Science Association

Since 1934, the *Philosophy of Science*, along with its sponsoring society, has been dedicated to advancing study and free discussion from diverse standpoints in the philosophy of science.

American Historical Review

Sponsored by the American Historical Association

The American Historical Review has been the journal of record for the historical profession in the United States since 1895.



The Journal of Modern History

The Journal of Modern History is recognized as the leading American journal for the study of European history.



THE UNIVERSITY OF CHICAGO PRESS
www.journals.uchicago.edu



THE JOHNS HOPKINS UNIVERSITY PRESS

FORTHCOMING

Would Trotsky Wear a Bluetooth?
Technological Utopianism under Socialism, 1917–1989
Paul R. Josephson

What about Darwin?
All Species of Opinion from Scientists, Sages, Friends, and Enemies Who Met, Read, and Discussed the Naturalist Who Changed the World
Thomas F. Glick

NEW

Einstein
A Biography
Jürgen Neffe
translated by Shelley Frisch
\$29.95 paperback

J. Robert Oppenheimer and the American Century
David C. Cassidy
\$25.00 paperback

Laboratory Disease
Robert Koch's Medical Bacteriology
Christoph Gradmann
translated by Elborg Forster
\$35.00 hardcover

A Forest on the Sea
Environmental Expertise in Renaissance Venice
Karl Appuhn
\$60.00 hardcover

Routes of Learning
Highways, Pathways, and Byways in the History of Mathematics
Ivor Grattan-Guinness
\$35.00 paperback

Pursuing Power and Light
Technology and Physics from James Watt to Albert Einstein
Bruce J. Hunt
Johns Hopkins Introductory Studies in the History of Science: Mott T. Greene and Sharon Kingsland, Series Editors

Never Pure
Historical Studies of Science as If It Was Produced by People with Bodies, Situated in Time, Space, Culture, and Society, and Struggling for Credibility and Authority
Steven Shapin

Looking for a Few Good Males
Female Choice in Evolutionary Biology
Erika Lorraine Milam
Animals, History, Culture: Harriet Ritvo, Series Editor

The Natural Philosophy of Margaret Cavendish
Reason and Fancy during the Scientific Revolution
Lisa T. Sarasohn

Cross-Cultural Scientific Exchanges in the Eastern Mediterranean, 1560–1660
Avner Ben-Zaken

Phaenomena Aratus
translated, with an introduction and notes, by Aaron Poochigian
Johns Hopkins New Translations from Antiquity

The Estrogen Elixir
A History of Hormone Replacement Therapy in America
Elizabeth Siegel Watkins
\$27.00 paperback

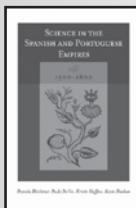
1-800-537-5487 • www.press.jhu.edu



New from Stanford University Press

Science in the Spanish and Portuguese Empires, 1500–1800

Edited by DANIELA BLEICHMAR,
PAULA DE VOS, KRISTIN HUFFINE,
and KEVIN SHEEHAN



\$65.00 cloth

This volume is a collection of essays that examines the practices and aims of science in the early modern Spanish and Portuguese empires (ca. 1500-1800), situating them in their historical, cultural, social, and political context.

Aesthetic Materialism

Electricity and American Romanticism

PAUL GILMORE



Aesthetic Materialism Electricity and American Romanticism provides a fresh understanding of American romanticism by examining the use of electrical imagery, science, and technology by writers such as Emerson, Fuller,

Whitman, and Melville to re-describe literary aesthetics as a transcendent and material practice mediating among socio-economic structures, human physiology and spirituality, and language itself.

\$60.00 cloth

Science and the Life-World

Essays on Husserl's Crisis of European Sciences

Edited by DAVID HYDER and
HANS-JÖRG RHEINBERGER

This collection of essays by prominent philosophers treats Husserl's last work, *The Crisis of European Sciences*, which deals with the relation of science to the world of everyday experience.

\$65.00 cloth

Science for the Empire

Scientific Nationalism in Modern Japan

HIROMI MIZUNO

"A very important contribution to Japanese intellectual and social history. Mizuno's book will require historians and social scientists of Japan to consider further the importance of the natural sciences, nationalism, and discourses about them for the larger field of study."

—James Bartholomew,
The Ohio State University

\$55.00 cloth

Culinary Nostalgia

Regional Food Culture and the Urban Experience in Shanghai

MARK SWISLOCKI

"Aptly locating the history of restaurant culture in Shanghai within the larger history of the city, the author has created that rarity: a fine work of scholarship that is truly enjoyable to read."

—Joanna Waley-Cohen,
New York University

\$55.00 cloth



 **Stanford**
University Press

800.621.2736
www.sup.org

 The MIT Press

The Metamorphosis of Plants

Johann Wolfgang von Goethe

Introduction and Photographs by Gordon L. Miller



136 pp., 60 color photographs, 3 color illus., 21 b&w illus., \$21.95 cloth

"This welcome edition makes Goethe's work more widely available than ever before, both for those who have not yet had the opportunity to read it, and for those who have read it, to read it again as if for the first time." — Henri Bortoft, author of *The Wholeness of Nature* and *Goethe's Scientific Consciousness*

Grace Hopper and the Invention of the Information Age

Kurt W. Beyer



The career of computer visionary Grace Murray Hopper, whose innovative work in programming laid the foundations for the user-friendliness of today's personal computers.

Lemelson Center Studies in Invention and Innovation series • 408 pp., 24 figures, \$27.95 cloth

Engineering Invention

Frank J. Sprague and the U.S. Electrical Industry, 1880-1900

Frederick Dalzell

foreword by W. Bernard Carlson

afterword by John Sprague

"A study of Frank Sprague's important contributions to electrical history is long overdue. Frederick Dalzell does this in impressive fashion while using Sprague's life and career to inquire into the nature of technological innovation and the role of the heroic inventor in American industry."

— Paul Israel, Rutgers University

304 pp., 22 illus., \$30 cloth

Visit our
BOOTH
for a 30%
DISCOUNT

Health and Medicine on Display

International Expositions in the United States, 1876-1904

Julie K. Brown

"In *Health and Medicine on Display* Julie K. Brown tells stories historians have largely neglected. Featuring an abundance of original and important research, this book will be a standard work in the fields of history of international expositions, medicine, and health policy for many years to come."

— Michael Sappol, National Library of Medicine, author of *A Traffic of Dead Bodies*

336 pp., 56 illus., \$45 cloth

Velvet Revolution at the Synchrotron

Biology, Physics, and Change in Science

Park A. Doing

"Park A. Doing's engaging study of life and work at a synchrotron laboratory expands our understanding of coordination, competition, expertise, and identity in the age of big science. This lively book sheds new light on the messy processes of knowledge-making—who counts as a scientist, and what counts as science—in the day-to-day life of a lab." — David Kaiser, author of *Drawing Theories Apart: The Dispersion of Feynman Diagrams in Postwar Physics*

Inside Technology series • 176 pp., 20 illus., \$28 cloth

The Book of Michael of Rhodes

A Fifteenth-Century Maritime Manuscript

edited by Pamela O. Long, David McGee,

and Alan M. Stahl

Volume 1: Facsimile

edited by David McGee

Volume 2: Transcription and Translation

edited by Alan M. Stahl

transcription by Franco Rossi

translation by Alan M. Stahl

Volume 3: Studies

edited by Pamela O. Long

"[This collection] provides a remarkable glimpse into the individual life of a mariner, the harsh conditions of his service at sea, the material conditions of Venetian trade, the making of knowledge in Renaissance culture, and the fraught process for a vernacular author of transforming his lived experience into the written word. This collection is a marvel!" — Pamela H. Smith, Columbia University

vol. 1 • 534 pp., color throughout, \$65 cloth

vol. 2 • 732 pp., \$75 cloth

vol. 3 • 384 pp., 86 illus., \$45 cloth



The Radiance of France

Nuclear Power and National Identity
after World War II

Gabrielle Hecht

with a new foreword by Michel Callon and a new
afterword by the author

"Historian Gabrielle Hecht has brilliantly deployed
the tools of the engineer, anthropologist, literary
critic, and social theorist to analyze how the
nuclear industry became integral to France's
revival after World War II. The book has become a
landmark in the literature on postwar France and
a model for how to blend the history of technol-
ogy with the study of politics and culture."

— Herrick Chapman, New York University

Inside Technology series • 486 pp., \$25 paper

Isaac Newton on Mathematical Certainty and Method

Niccolò Guicciardini

"Guicciardini's book is a major contribution to
Newtonian studies. This penetrating study will
be of interest to specialists in the history of exact
science as well as to anyone interested in the in-
tellectual context of seventeenth-century science."

— Craig Fraser, University of Toronto

Transformations: Studies in the History of Science
and Technology • 448 pp., 96 illus., \$55 cloth

A Nuclear Winter's Tale

Science and Politics in the 1980s

Lawrence Badash

"Badash has written an exciting account of the
1980s' deep concern about nuclear winter in the
scientific and political world. This book is an in-
teresting story of the complex web of characters
and motives." — Warren M. Washington, National
Center for Atmospheric Research

Transformations: Studies in the History of Science
and Technology • 424 pp., \$40 cloth

Now in Paper

From Embryology to Evo-Devo

A History of Developmental Evolution

edited by **Manfred D. Laubichler**
and **Jane Maienschein**

"Like all good history, the studies in *From Embryol-
ogy to Evo-Devo* give a perspective on the present
as well as the past." — Ron Amundson, *Science*

Dibner Institute Studies in the History of Science
and Technology • 584 pp., 63 illus., \$29 paper

Obelisk

A History

**Brian A. Curran, Anthony Grafton,
Pamela O. Long, and Benjamin Weiss**

"A fascinating account of the way a bizarre Egyp-
tian luxury object became an essential symbol for
a bewildering variety of places, religions, cultures,
and governmental systems. An erudite and witty
tour by four expert guides, with illustrations as
delightful as the story they have to tell."

— Ingrid D. Rowland, University of Notre Dame
and author of *Giordano Bruno: Philosopher/Heretic*

Visit our website to hear a podcast featuring this author
Publications of the Burndy Library • 384 pp., 131 illus.,
\$27.95 paper

Cold War Kitchen

Americanization, Technology, and European Users

edited by **Ruth Oldenzien and Karin Zachmann**

"This book is a remarkably fresh and inventive
contribution to the study of the technologies
of empire. Implacably, carefully, they demon-
strate how the American kitchen, propelled by a
myriad of supports from the assembly line and
Hollywood cinema to the supermarket and State
Department, operated as a pillar of U.S. Cold
War hegemony." — Victoria de Grazia, Columbia
University

Inside Technology series • 424 pp., 44 illus., \$36 cloth

Communications under the Seas

The Evolving Cable Network and Its Implications

edited by **Bernard Finn and Daqing Yang**

The technology of undersea communications, from
stranded-wire telegraph cables in the 1850s to
fiber-optic cables at the end of the twentieth cen-
tury, and its social, political, and economic impact.

Dibner Institute Studies in the History of Science
and Technology • 360 pp., 7 illus., \$40 cloth

Now in Paper

Elizabeth Blackburn and the Story of Telomeres

Deciphering the Ends of DNA

Catherine Brady

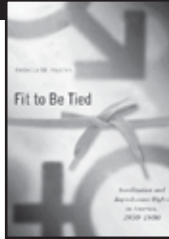
"Although Blackburn is certainly not an average
woman scientist, there are many features of her
journey that others who are interested in medical
science—women and men alike—will connect
with." — Thomas R. Cech, Ph.D., *New England
Journal of Medicine*

408 pp., 23 illus., \$15.95 paper

To order call 800-405-1619 • <http://mitpress.mit.edu> • Visit our e-books store: <http://mitpress-ebooks.mit.edu>

RUTGERS
UNIVERSITY PRESS

Taking Readers in New Directions



CRITICAL ISSUES IN HEALTH AND MEDICINE SERIES

War and Disease

*Biomedical Research on Malaria
in the Twentieth Century*

Leo B. Slater

Cloth • 272 pages

978-0-8135-4438-0 • \$45.95

From Pink to Green

*Disease Prevention and the Environmental
Breast Cancer Movement*

Barbara L. Ley

Paper • 265 pages

978-0-8135-4531-8 • \$24.95

Fit to Be Tied

*Sterilization and Reproductive
Rights in America, 1950–1980*

Rebecca M. Kluchin

Cloth • 288 pages

978-0-8135-4527-1 • \$45.95

American Melancholy

*Constructions of Depression
in the Twentieth Century*

Laura D. Hirshbein

Cloth • 224 pages

978-0-8135-4584-4 • \$42.95

RUTGERS ANIMAL Q&A SERIES

Do Bats Drink Blood?

Fascinating Answers to Questions about Bats

Barbara A. Schmidt-French and Carol A. Butler

Paper • 176 pages • 15 color and 25 b&w photographs

978-0-8135-4588-2 • \$21.95

Salt Marshes

A Natural and Unnatural History
Judith S. Weis and Carol A. Butler

Paper • 272 pages • 70 photographs

978-08135-4570-7 • \$23.95

**Why Evolution Works
(and Creationism Fails)**

Matt Young and Paul K. Strode

Foreword by Kevin Padian

Paper • 224 pages • 18 illustrations

978-08135-4550-9 • \$21.95

Earth in Our Care

Ecology, Economy, and Sustainability
Chris Maser

Foreword by Okechukwu Ukaga

Cloth • 304 pages

978-0-8135-4559-2 • \$49.95

Incurable and Intolerable

*Chronic Disease and Slow Death
in Nineteenth-Century France*

Jason Szabo

Cloth • 310 pages

978-0-8135-4545-5 • \$49.95

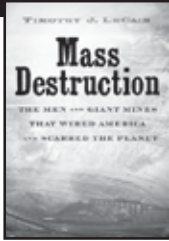
30% DISCOUNT AND FREE SHIPPING • VISIT US AT OUR TABLE



To order, visit rutgerspress.rutgers.edu or call 800-848-6224

RU Reading? Sign up for free alerts and discounts at rutgerspress.rutgers.edu

Rutgers, The State University of New Jersey



Mass Destruction

The Men and Giant Mines That Wired America and Scarred the Planet

Timothy J. LeCain

Cloth • 280 pages • 20 illustrations

978-0-8135-4529-5 • \$26.95



Growing American Rubber

Why Don't Jumbo Jets Flap Their Wings?

Flying Animals, Flying Machines, and How They Are Different

David E. Alexander

Cloth • 296 pages • 32 illustrations

978-0-8135-4479-3 • \$26.95



The Artificial Ear

Cochlear Implants and the Culture of Deafness

Stuart Blume

Paper • 272 pages

978-0-8135-4660-5 • \$25.95

Picturing Medical Progress from Pasteur to Polio

A History of Mass Media Images and Popular Attitudes in America

Bert Hansen

Paper • 350 pages

22 color and 108 b&w photographs

978-0-8135-4576-9 • \$37.95

STUDIES IN MODERN SCIENCE, TECHNOLOGY, AND THE ENVIRONMENT SERIES

Growing American Rubber

Strategic Plants and the Politics of National Security

Mark R. Finlay

Cloth • 360 pages

978-0-8135-4483-0 • \$49.95

The Mosquito Crusades

A History of the American Anti-Mosquito Movement from the Reed Commission to the First Earth Day

Gordon Patterson

Cloth • 288 pages • 11 photographs

978-0-8135-4534-9 • \$49.95

In Sputnik's Shadow

The President's Science Advisory Committee and Cold War America

Zuoyue Wang

Paper • 478 pages

978-0-8135-4688-9 • \$27.95

Cash for Your Trash

Scrap Recycling in America

Carl A. Zimring

Paper • 240 pages • 6 photographs

978-0-8135-4694-0 • \$23.95

FIRST
PAPERBACK
EDITIONS

Everyday Nature

Knowledge of the Natural World in Colonial New York

Sara S. Gronim

Paper • 276 pages • 10 photographs

978-0-8135-4673-5 • \$23.95

Poison in the Well

Radioactive Waste in the Oceans at the Dawn of the Nuclear Age

Jacob Darwin Hamblin

Paper • 326 pages

978-0-8135-4674-2 • \$24.95

30% DISCOUNT AND FREE SHIPPING • VISIT US AT OUR TABLE



To order, visit rutgerspress.rutgers.edu or call 800-848-6224

RU Reading? Sign up for free alerts and discounts at rutgerspress.rutgers.edu

Rutgers, The State University of New Jersey

please join us for the
2010 GEORGE SARTON
MEMORIAL LECTURE IN THE
HISTORY AND PHILOSOPHY OF SCIENCE
at the American Association for the Advancement of Science
San Diego, California
20 February, 2010, 12:30–1:15 pm

the ORIGINS *of*
EXPERIMENTAL
ERROR

presented by
JED Z. BUCHWALD
CALIFORNIA INSTITUTE OF TECHNOLOGY

In the mid 1750s, the English mathematician Thomas Simpson tried to convince astronomers that it was a good idea to average multiple measurements. He had much work to do, because neither astronomers nor physicists were in the habit of combining multiple measurements to produce a best final value. In fact, the first one to do so had been Isaac Newton, who for the most part, hid his techniques. How then did experimenters and observers work with discrepant data before statistical methods became common at the beginning of the 19th Century? We will tour the worlds of Tycho Brahe, Robert Hooke, Johannes Hevelius Newton, and others to see how they worked with measured data.

INDEX

~A~

Abir-Am, Pnina G. 21
 Achbari, Azadeh 24
 Alder, Kenneth 3, 4, 21
 Alexander, Jennifer 12
 Alfonso-Goldfarb, Ana
 Maria 13, 23
 Alt, Nicholas 17
 Anderson, Katharine 4
 Ankeny, Rachel 2, 3, 4
 Apt, Adam J. 3
 Ash, Eric H. 11

~B~

Badino, Massimiliano 12
 Baneke, David 14
 Banerjee, Somaditya 26
 Barker, Peter 22
 Barnett, Lydia 22
 Barrow, Mark V. 11
 Bartholomew, James 19
 Barton, Michael D. 16
 Bashford, Alison 27
 Bassiri, Nima R. 15
 Beatty, John 3
 Becker, Barbara J. 22
 Belknap, Geoff 29
 Bellon, Richard 28
 Beltran, Maria Helena Rox 23
 Biagioli, Mario 19
 Blair, Ann M. 10, 11
 Blanchard, Nicholas E. 24
 Blondel, Christine 24
 Boantz, Victor 16
 Boggs, Jeremy 23
 Boner, Patrick J. 22
 Bouk, Dan 17
 Brashear, Ronald 21
 Bravo, Michael T. 28
 Brick, Greg 24
 Bridger, Sarah 25
 Brinkman, Paul D. 28
 Brown, Deborah A. 21
 Brusius, Mirjam 29
 Brysse, Keynyn A. R. 19
 Buchwald, Diana Kormos 16
 Buchwald, Jed Z. 16

Bud, Robert 12, 21
 Buhrman, Kristina 14
 Burns, Liz 14

~C~

Cadden, Joan 3
 Canales, Jimena 21
 Carson, Cathryn 2, 3, 23
 Casper, Stephen 15
 Ceranski, Beate 17
 Chang, Kevin 14
 Chen-Morris, Raz 16
 Cheol, Shin Min 14
 Cheong, Giny 23
 Chew, Matt 14
 Christensen, Jon 20
 Coen, Deborah R. 20
 Cohen-Cole, Jamie 17
 Collins, Bridget 20
 Collins, James 12
 Comfort, Nathaniel 17
 Cook, Harold J. 24
 Cooper, Alix 13
 Cormack, Lesley 11
 Cowles, Henry M. 11
 Cravens, Hamilton 21
 Crawford, Matthew J. 16
 Creager, Angela 17
 Creath, Rick 2
 Cronin, Marionne 28
 Crowther, Kathleen 19
 Crumpton, Amy 4
 Csiszar, Alex 26
 Cueto, Marcos 4

~D~

Dahlbom, Taika 2
 Dauben, Joseph 14
 Davis, A.E.L. 24
 Davis, Edward B. 27
 Davis, Fritz 22
 Davis, Kathryn 22
 DeKosky, Robert 4
 Delft, Dirk van 22
 de Souza, Elaine 13
 Dibner, Brent 2
 Digrius, Dawn 2, 23

Doel, Ronald E. 21
 Domski, Mary A. 22
 Donnelly, Kevin Padraic 14
 Doran, Connemara 26
 Dörries, Matthias 20
 Dror, Otniel E. 17

~E~

Eamon, William 28
 Eckert, Michael 13
 Eghigian, Greg 13
 Elbers, Astrid 24
 Elman, Benjamin A. 12
 Elwick, James 28

~F~

Farber, Paul 3
 Feingold, Mordechai 3, 11
 Ferraz, Márcia H.M. 13
 Figueroa, Marcelo Fabión 16
 Findlen, Paula 10, 19
 Fiss, Andy 24
 Francis, Kevin J. 11
 Freiburger, Dana 15

~G~

Gabel, Isabel 26
 Gal, Ofer 16
 Gaukroger, Stephen 10
 Gauvin, Jean-Francois 16
 Gearhart, Clayton A. 12
 Gere, Cathy 13
 Gisler, Monika B. 22
 Giulini, Domenico 13
 Goldberg, Benjamin 19
 Goldstein, Daniel 13
 Goody, Graeme J. 4, 12
 Gordin, Michael D. 27
 Gordon, Robin L. 14
 Grant, Florence 28
 Greene, Mott 20
 Grosslight, Justin 13
 Guenther, Katja 15
 Guerrini, Anita 4, 25
 Guldi, Jo 23

~H~

Hale, Piers J. 16
Hall, Nancy S. 25
Hamlin, Christopher 19
Hamm, Ernst 29
Hansen, Bert 27
Harris, Bradford C. 18
Harrison, Peter 10
Harvey, Joy 23
Hayton, Darin 28
Healy, Jenna 13
Heidarzadeh, Tofigh 22
Helbig, Daniela 26
Henson, Pamela 3
Herman, Ellen 17
Hessels, Virginia 2
Hölldobler, Bert 12
Howard, Don 4, 20
Hsia, Florence C. 25
Hu, Danian 16
Huebner, Marita 22
Huffine, Kristin L. 20
Hui, Alexandra E. 26
Hunt, Bruce J. 23
Hunter, Melanie 2
Hunter, Thomas Russell 16
Hurlbut, J. Ben 17

~J~

James, Kathryn 17
Janssen, Michel 20
Jiang, Lijing 15
Johnson, Ann 17
Jones, Matt 28
Jorink, Eric 25
Jou, Chin 23

~K~

Kaiser, David 3, 4, 20
Karstens, Bart 14
Kay, Gwen 4
Keller, Vera 12
Kidwell, Peggy A. 17
Kikuchi, Yoshiyuki 15
Kingsland, Sharon E. 12
Kinzig, Ann 12
Kitch, Sally 26
Klamm, Stefanie 29
Klein, Ursula 17

Klemun, Marianne 14
Kohler, Robert 17
Kox, A.J. 16
Kraft, Alison 25
Krämer, Fabian 14
Krige, John 21
Kronz, Frederick 25
Kuklick, Henrika 17
Kurtz, Joachim 12
Kusukawa, Sachiko 4
Kuukkanen, Jouni-Matti 14
Kyriakoudes, Louis M. 18

~L~

Lachapelle, Sofie 13
Lanzoni, Susan 17
Laubichler, Manfred
Dietrich 12
Lavine, Matthew B. 20
Lazier, Benjamin 26
Lebrun, David 21, 24
Lederer, Susan E. 3
Ledezma, Domingo 20
Lee, Taehee 15
Leon, Juan Andres 15
Levine, Philippa 27
Levinson, Thomas 10
Light, Jennifer 23
Lightman, Bernard V. 3, 16
Lindee, Susan 4
Lipkowitz, Elise S. 24
Long, Pamela O. 3, 4, 21
Lowood, Henry 24
Lustig, Abigail 23
Lynch, John M. 16

~M~

Machline, Vera C. 23
Magruder, Kerry V. 15
Maienschein, Jane 2, 3, 10
Malone, Mason 2
Malone, Robert J. 3
Mamo, Andrew B. 15
Manning, Kenneth 10
Marcon, Federico 12
Margocsy, Daniel 13
Martensen, Robert L. 25
Mazzotti, Massimo 11
McCaskey, John P. 14
McClellan, James 12

Meli, Domenico Bertoloni 19
Meyer, Michal 2
Miller, Clark 19
Molina, Michelle 20
Monaldi, Daniela 20
Montero, Iris 16
Moore, Aaron S. 19
Morawski, Jill 17
Mukerji, Chandra 27
Mullaney, Thomas S. 15

~N~

Nappi, Carla 12
Navarro, Jaime (James) 20
Needell, Allan 16
Newman, William 10, 29
Nguyen, Julia Huston 25
Nye, Mary Jo 21

~O~

Ogilvie, Brian W. 11
Olarte, Mauricio Nieto 16
Olszewski, Todd 20
Onaga, Lisa A. 19
Oosterhoff, Richard 19
O'Reilly, Jessica 19
Oreskes, Naomi 10, 19, 21
Osler, Margaret J. 3
Owens, Trevor 23

~P~

Pandora, Katherine 4
Parada, Jaime 24
Park, Mina 15
Parshall, Karen 4
Parsons, Christopher M. 20
Pasles, Paul 17
Pastorino, Cesare 12
Patel, Sejal 17
Patterson, Andrea 23
Pearce, Trevor 23
Pestic, Peter 14
Petrick, Gabriella M. 17
Pettit, Michael 13
Phalkey, Jahnavi 26
Pickren, Wade 13
Ponce, Rachel N. 15
Porter, Theodore 26
Portuondo, Maria 16
Prabhu, Jaideep A. 26

Prasad, Ritika 21
Price, Derek 4
Principe, Lawrence 25
Priven, Silvia Waisse 23
Proctor, Robert N. 18
Pugliano, Valentina 13
Pycior, Helena 3

~Q~
Quintero, Camilo 16, 22
Qureshi, Sadiya 11

~R~
Rabinovitch, Oded 27
Raby, Megan M. 22
Rader, Karen 3
Radin, Joanna 17
Rainger, Ronald 3
Ramalingam, Chitra 29
Rankin, Alisha 28
Rankin, Joy 25
Rankin, William J. 21
Ranney, Jessica 2
Raphael, Renee J. 19
Rasmussen, Nicolas 25
Ratcliff, Jessica 11
Reeds, Karen 3
Rego, Brianna 18
Regouby, Lynnette 2, 24
Reidy, Michael 3, 15
Rensing, Susan 11
Reznick, Tom 15
Rheinberger, Hans-Jörg 3
Richardson, Sarah S. 15
Richmond, Marsha 4, 11
Rider, Robin 25
Rieppel, Lukas 11
Riskin, Jessica 2, 3, 10, 22
Roberts, David L. 17
Roberts, Lissa 17
Roberts, Meghan 27
Robertson, Jennifer 27
Roberts, Peder 28
Robinson, Michael 28
Rocke, Alan 4
Rodman, Rachel 24
Rogaski, Ruth 12
Ross, Sage R. 25
Rothenberg, Marc 2, 4, 14, 21
Rumore, Gina 21

Rupke, Nicolaas 28

~S~
Saridakis, Voula 22
Satzinger, Helga 11
Sawchuk, Christina 28
Schatzberg, Eric 12
Schimkat, Peter 24
Schloegel, Judy Johns 3
Schwartz, Daniel 14
Schwegman, Jeff 28
Schwerin, Alexander 25
Seitz, Jonathan W. 22
Sepkoski, David 24
Seth, Suman 22
Shapiro, Adam R. 19
Shapiro, Lisa 24
Shen, Grace 15
Siddiqi, Asif 26
Siegel, Daniel 16
Siraisi, Nancy 3
Slack, Nancy 11
Sloan, Phillip 11
Smith, Pamela 4
Smocovitis, Vassiliki
(Betty) 25
Smoller, Laura 11
Snyder, Felicity 2
Söderqvist, Thomas 3, 4
Spanagel, David 27
Stadler, Max 25
Stamhuis, Ida H. 4, 11
Stanley, Matthew 27
Stark, Laura 17
Stascheit, Andreas Georg 15
Steere-Williams, Jacob A. 23
Strasser, Bruno J. 17, 21
Strick, James E. 4, 15
Stuewer, Roger 4
Sunderland, Mary E. 23
Sylla, Edith D. 25

~T~
Taltavull, Marta Jordi 12
Terrall, Mary 27
Thomas, William 19
Tracy, Sarah W. 23
Tritt, Elly 28
Tucker, Jennifer 29
Tulodziecki, Dana 23

Turner, Roger 27

~U~
Unguru, Sabetai 14

~V~
Valencius, Conevery 20
Valleriani, Matteo 19
van Lunteren, Frans 14
Varno, Theodore 25
Vermij, Rienk H. 25
Vinsel, Lee 20
Volmar, Axel 26
Voorhees, Burton H. 24
Voskuhl, Adelheid 26

~W~
Wakamatsu, Fumitaka 19
Wakefield, Andre 29
Walter, Scott A. 26
Wang, Jessica 4
Wang, Zuoyue 21
Watts, Matthew B. 22
Wazeck, Milena 22
Weart, Spencer 3
Webster, Marjorie 2
Weldon, Stephen 13
Wellerstein, Alex 23
Wernimont, Jacqueline 2, 11
Westman, Robert 16
Wey-Gomez, Nicolas 13
Wheeles, Dana 23
White, Matt 2
Whitmer, Kelly J. 28
Wingfield, Rebecca H. 24
Wise, M. Norton 4, 18
Wolfe, Audra J. 4, 15
Wolff, Megan J. 20
Wragge-Morley, Alexander 28
Wu, Xiao (Shellen) 15

~Y~
Yale, Elizabeth E. 27
Yamane, Nobuhiro 19
Yan, Ruixue 14
Yi, Doogab 23

~Z~
Ziemer, Hansjakob 26

