History of Science Society
Annual Meeting

November 19-22, 2015
San Francisco, California
HISTORY OF SCIENCE AND TECHNOLOGY AT BONHAMS

Cassandra Hatton, Director of History of Science and Technology at Bonhams will be speaking at the conference on Saturday, November 21 from 1:30-3:30pm in Roundtable: Collecting the History of Science: The Trade in Rare Books, Manuscripts and Historical Objects. She would be delighted to answer any questions during the session, or at anytime during the conference.

TURING, ALAN MATHISON. 1912-1954. Hidden wartime manuscript on the foundations of mathematics and computer science. Sold for $1,025,000

INQUIRIES
Cassandra Hatton
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HISTORY OF SCIENCE SOCIETY

ANNUAL MEETING

19–22 November 2015
San Francisco, California

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Cover image: San Francisco Travel Association photo (www.sanfrancisco.travel)
HSS ACKNOWLEDGMENTS

Welcome to the Golden Gate City and the 2015 HSS conference! In post-meeting surveys, San Francisco regularly ranks at the top of desirable spots to meet, but it can be an expensive place, a major reason why we have not met here since 1973. But one of the upsides of the Great Recession of 2008, and why I booked as many meetings as I could after it hit, was that it made tier-one cities, such as Boston, Chicago, and San Francisco, more affordable. And even though the hotel keeps telling me that our conference rate of $173 is unheard of, my proudest negotiation moment remains the grad student room rate of $99/night, making the conference hotel an affordable option for that important population.

Our program co-chairs, Sue Lederer and Florence Hsia (University of Wisconsin–Madison) handled the intellectual content of the 2015 program, sorting through more than 600 paper and poster proposals (a remarkably high number) to create more than 100 sessions. When one considers that they must work with whatever comes over the transom, that they are charged with avoiding overlapping themes and periods, that many people cannot present on x day for y reason, and that there is a no-duplication rule in effect (except for our experimental round-table sessions), then you can appreciate the enormity of the puzzle that is the HSS program. And to make this year even more interesting, and to make the meeting more dynamic, we issued a separate call for posters, and I am likewise grateful to Karen-Beth Scholthof (Texas A&M University) and Roger Turner (Dickinson College) for judging these submissions. It is my hope that our plan to feature the posters at our Friday night reception will make for an interesting evening.

Our Local Arrangements Committee, chaired by Brian Dolan (University of California, San Francisco), scouted potential public-engagement sites, secured graduate student help, raised funds to offset costs and helped with numerous other details. I am especially grateful for Brian’s “Welcome to San Francisco” piece that describes great places to eat, how to navigate the city, and provides a wonderful overview of San Francisco’s fantastically diverse neighborhoods. Please take a moment to read his article – it will improve your conference.

Our Committee on Meetings and Programs (CoMP), ably and patiently chaired by Rachel Ankeny, continued to work behind the scenes. CoMP’s judgment shapes the meeting, and I am grateful for their help. My son, Mason, created the Web registration interface back in 2006 – all pro bono – and he has his father’s deep appreciation. All of these volunteers make the conference possible – the Executive Office alone could not possibly shoulder the entire load.

The annual meeting functions because of the dedicated efforts of the HSS office staff, efforts that begin years before the actual conference: Greg Macklem, our Society Coordinator, is somehow able to conceal the chaos that burbles below
the conference surface, and cheerfully answers queries from folks who can remember events 300 years in the past but cannot recall if they ordered a mug last month. The fact that he replies to all questions with good humor and wit keeps everyone in the Executive Office from falling off the beam of sanity.

Jessica Baron, our Director of Media and Engagement, liaised with science writers, wrote press releases, and Tweeted and Facebooked multiple aspects of the conference, giving us a presence in the digital universe that is valuable beyond measure. Our Notre Dame students, Michelle Marvin and Bohang Chen, assisted with everything from proofreading the program, to scrutinizing travel grants, to setting up the book exhibit, to organizing the prize committees, to arranging the tickets for various events. Our two undergraduates, Natalie Boone and Kevin Park, likewise handled more details than can be listed, and did so with more good cheer than can be expected from those whose feet are planted in reality (as their feet are). Matt White, who apparently has no bottom when it comes to handling stress, volunteered—yet again—to organize the many student volunteers. And Heather Macklem, who by choosing Greg as her mate provided eternal validation for my choosing Greg as Society Coordinator, volunteered, again, to throw a week of her life into the meeting maelstrom—and provide us with a conference physician to boot! They all have my deep and abiding thanks.

As mentioned above, meeting in a large city, although agreeable in its variety, offers challenges as regards costs. Fortunately, we enjoyed support from our friends to help mitigate expenses, and absent their generosity attendees would shoulder a much heavier financial load. I would like to recognize three in particular: the University of Notre Dame for its hosting of the Executive Office; the National Science Foundation for its support of travel grants for graduate students, independent scholars, and recent PhDs (SES-1354351); and the Center for Humanities and Health Sciences at the University of California, San Francisco, directed by Dorothy Porter. A list of other supporters can be found on the back cover of the program. I appreciate, beyond words, this generous support.

The HSS Executive Committee provided understanding, encouragement, and wisdom on all aspects of the meeting—they too, have my profound thanks. And, finally, I must thank you, the attendees, who 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 -- it is our members who make all of this possible.

Jay Malone
HSS Executive Director
26 October 2015
HSS Officers and Committees

COUNCIL

EXECUTIVE COMMITTEE
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Vice-President, Janet Browne, Harvard University
Secretary, Marsha L. Richmond, Wayne State University
Treasurer, Adam J. Apt, Peabody River Asset Management
Editor, H. Floris Cohen, Utrecht University
Executive Director, Robert J. Malone, History of Science Society (ex officio)

2013-2015
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Sarah E. Igo
Paul Lucier
Lissa L. Roberts
Conevery Bolton

2014-2016
Katharine Anderson
Cathryn Carson
Erik M. Conway
Jan Golinski
John Harley Warner

2015-2017
Carin Berkowitz
Fa-ti Fan
James Fleming
Lawrence Principe
Audra Wolfe

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Honors and Prizes, Sarah E. Igo, Vanderbilt University
Meetings and Programs, Rachel A. Ankeny, University of Adelaide
Publications, Soraya de Chadarevian, University of California, Los Angeles
Technology, Stephen P. Weldon, University of Oklahoma
Finances, Adam J. Apt, Treasurer

PROGRAM CO-CHAIRS
Florence C. Hsia, University of Wisconsin–Madison
Susan E. Lederer, University of Wisconsin–Madison

LOCAL ARRANGEMENTS CHAIR
Brian Dolan, University of California, San Francisco
I wish to thank our volunteers whose terms will end in 2015. Their time and effort are the reason that the HSS is able to recognize superlative scholarship, to hold an annual meeting, to publish the highest-quality scholarship, to maintain a web presence, to nurture scholarship, and to promote interest in the history of science. I offer my deep-felt thanks to each one.
- Jay Malone, HSS Executive Director

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DINING IN SAN FRANCISCO

The dining options in San Francisco are numerous and varied, both near the hotel and within easy reach of public transportation or taxi. Please see Brian Dolan’s welcoming piece in the October 2015 HSS Newsletter for an introduction to the city and a handful of favorite eateries. If you are disinclined to use online services to find someplace to eat, the San Francisco Convention and Visitor’s Bureau has provided maps and dining guides – visit the registration desk for more details.

TIPS ON TIPPING

Although we complain about 23% service charges on hotel food and beverages for our conferences, it is important to remember that this amount represents additional pay for the hotel servers, many of whom make minimum wage. Because even seasoned travelers have difficulty know who to tip and how much, we offer the following guidelines.

The following advice is adapted from Trip Advisor for tipping in the United States.

EATING OUT

When eating in a restaurant in the U.S., it is good to remember that, in general, many of the staff are paid below federal minimum wage (currently $7.25/hour, $9.00/hour in California) but the amount may vary state by state. Tips are how these workers supplement their income.

A good rule of thumb when calculating a table service restaurant tip is to ignore sales tax, and, for good service, calculate 15% of the entire food, beverage, and wine bill. (This is the amount listed before the sales tax line.)

Add 18-20% if the service was outstanding, especially prompt or friendly, or the server fulfilled many special requests. Note: in most larger restaurants in the USA, the server has to pay back a portion of their tips to the bartender, busser, hostess, and food runners. At higher end restaurants, there may also be a sommelier or wine steward. You should tip the sommelier separately, at your discretion. However, in some restaurants, the server tips the sommelier based on their individual wine sales, so it is advisable to ask your server first. Individual drinks you are served at a restaurant bar should always earn a $1-2 tip each.

For bad or unacceptable service it is customary to tip as low as 10%. If service is bad enough to deserve only 10%, it is a good idea to let the manager know. Also, placing 2 pennies side by side on top of bills neatly placed on the table lets the server know that it is intentionally low because of bad service. If the server in some way offended you so that you do not wish to leave any tip at all, still leave the 2 pennies, so that they understand that you did not just forget to tip.

Counter service/fast food restaurants often have tip jars out, but you are not required to tip. If the service is exemplary or unusual requests are made, then tips are appropriate.

Bartenders: $1-$2 per drink, or 15-20% of the total bill.
Other optional tipping situations common to travelers include:

- **Hotel housekeeping/maid service**: $2-3 per night up to $5, more in high-end hotels. Also more if there are more than 3 people in a room or suite. Leave the tip on your pillow or in a similar obvious place with a note that says thank you. Leave the tip each day when you leave the room, rather than at the end of your stay, because your room might be cleaned by different people each day, depending on staff schedules. If you have additional items delivered to your room, such as extra pillows, hangers, luggage racks, tip the person who brings them $2 or $3. Remember that Sheraton and Westin Hotels have a “Make a Green Choice” option, where if you put up the “Green Choice” hangtag on your door, declining housekeeping service for that day, you will receive a $5 credit in the hotel (see the card in your room for details).

- **Concierge**: Tipping is never expected, but always appreciated. The more difficult the request, the higher the tip. $5.00 and up per request is good.

- **In-suite dining waiter**: Always read the bill: if there is a tip included, it will be on the bill breakdown. Ask the server. The policy of having the gratuity included in the bill is not the norm anymore. A service charge or convenience fee goes to the hotel, not the server. If there is no gratuity added, tip the server 15% - 20%.

- **Bellman/Porter**: $1-2 per bag. More if the bags are very heavy.

- **Taxi Driver**: 10-15% of fare, based on service.

- **Hotel limo driver**: For a free ride from the airport, $10 - $20

- **Drink Server in a casino** or bar: $1-$2 per drink. Some tip $5 for the first drink to make sure the waitress “remembers” them and returns often...

- **Valet Parking Attendants**: $2 - $5 (when picking up car).

**RESPECTFUL BEHAVIOR POLICY**

The History of Science Society is dedicated to providing a safe, hospitable, and productive environment for everyone present, regardless of ethnicity, religion, disability, physical appearance, sexual orientation, or gender. Accordingly, the Society deplores sexual harassment and is sensitive to the harm suffered by persons who experience it. We expect those attending our meeting to treat others with respect, and not to engage in behavior that is intimidating, threatening, or harassing conduct during our conference. This expectation applies to our speakers, staff, volunteers, and attendees. (Approved by HSS Council, Nov 2014)

[Please note that the HSS is working to expand on this policy so that all attendees feel safe at the annual conferences. If you wish to speak to someone about an incident at the meeting, even if it is just to help you sort out what happened, please feel free to contact the Executive Director, Jay Malone, or the HSS President, Angela Creager.]
The vast majority of breakout sessions take place on the 2nd level of the historical section of the Westin St. Francis. Plenary events will take place on the Mezzanine level of the historical section. Other events may be located on the 1st level of the tower section or the St. Francis Suite on the 12th level of the historic section.

**2nd Level**

NOTE: The Tower Elevators have no access to the St. Francis Suite on the 12th level. Use the elevators across from and down the hall from the Olympic Room.
2015 HSS BOOK EXHIBIT
California East and West
Diagram not to scale
### Exhibitor Listing by Table Number

1. ............................................................... University of Chicago Press  
2. .......................................................... Chemical Heritage Foundation  
3. .............................................................. University of Alabama Press  
4. ................ University of California Medical Humanities Press  
5. .............................................................. Springer  
6. ................................................................. Green Lion Press  
7. .............................................................. Harvard University Press  
8. .............................................................. University of Pittsburgh Press  
9. ........................................................... Yale University Press  
10. ......................................................................... MIT Press  
11. ......................................................................... Brill  
12. ............................................................... Johns Hopkins University Press  
13. ........................................................... Cambridge University Press  
14. ......................................................................... Elsevier  
15. ............................................................ Princeton University Press  
16. ...................................................................... Palgrave Macmillan  
17. ..................................................................... Royal Society Publishing  
18. ....................................................... Collective Book Exhibit  
19. ....................................................................... Ben Kinmont, Bookseller  
20. ......................................................................... Scholar’s Choice  
21. ...................................................................... B & L Rootenberg Books  
22. .................................................................. *Isis* Current Bibliography

### Exhibitor Listing by Exhibitor Name

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Brill ................................................................................................. 11  
Cambridge University Press .............................................................. 13  
Chemical Heritage Foundation ......................................................... 2  
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Green Lion Press ............................................................................. 6  
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Johns Hopkins University Press ......................................................... 12  
MIT Press .......................................................................................... 10  
Palgrave Macmillan ........................................................................... 16  
Princeton University Press ................................................................. 15  
Royal Society Publishing ................................................................. 17  
Scholar’s Choice ................................................................................. 20  
Springer .............................................................................................. 5  
University of Alabama Press .............................................................. 3  
University of California Medical Humanities Press ......................... 4  
University of Chicago Press .............................................................. 1  
University of Pittsburgh Press ............................................................ 8  
Yale University Press ....................................................................... 9
HSS CAUCUSES AND INTEREST GROUPS

The History of Science Society has several caucuses and interest groups to serve the numerous interests of its members. They are completely volunteer-driven and make significant contributions not only to the annual meetings, but to the Society and the field as a whole. Below are brief descriptions of each of these organizations and any sponsored sessions appearing on this year’s program. Note that membership in a caucus or interest group is not required to attend a sponsored session or business meeting. If you’re curious about a particular group, please attend the business meeting and/or contact the current chair(s).

Graduate and Early Career Caucus
Chair: Bridget Collins (bdcollins@wisc.edu), University of Wisconsin–Madison, USA

Emerging from a collective consensus that the creation of a graduate student and early career caucus within HSS would greatly benefit the next generation of scholars, the GECC is working to improve resource offerings for these groups in the coming year, through venues that include, but are not limited to, their website, https://hssgecc.wordpress.com/.

The chairs and officers are graduate students and early career members of HSS, who act as liaisons between the standing committees of the HSS and the student/early career constituency. The objective of the group is to facilitate communication between caucus members and HSS regarding their concerns, issues, and ideas, as well as potentially having representation on HSS committees in the future.

2015 Sponsored Sessions and Events:
- HSS Graduate and Early Career Caucus Mixer (Thursday, 9:00 – 11:00 PM)
- CV Review (Friday, 1:00 – 5:00 PM and Saturday, 9:00 AM – 5:00 PM)
- Graduate and Early Career Caucus Business Meeting and Workshop (Saturday, 12:00 – 1:15 PM)

HSS at Work
Co-Chair: Carin Berkowitz (cberkowitz@chemheritage.org), Chemical Heritage Foundation, USA
Co-Chair: Jessica Baron (jessica@hssonline.org), University of Notre Dame, USA

HSS at Work is devoted to improving opportunities and support for scholars interested in employment options for historians of science beyond the
academy. Inspired by other efforts to support the scholarly community outside its traditional bounds, this caucus aims to serve graduate students, history of science alums, and faculty who are increasingly called upon to prepare their students for a variety of careers outside the traditional tenure-track.

Reminded that “the history of science is everywhere,” we seek to expand understandings of scholarship within and without the academy, and to create new connections within the history of science community.

2015 Sponsored Sessions:

- HSS at Work Business Meeting (Friday, 11:00 – 11:45 AM)
- Roundtable: Communicating Beyond the Ivory Tower (Friday, 12:00 – 1:15 PM)

Joint Caucus of Socially Engaged Philosophers and Historians of Science

HSS Co-Chair: Rachel A. Ankeny (rachel.ankeny@adelaide.edu.au), University of Adelaide, Australia
PSA Co-Chair: Janet D. Stemwedel (janet.stemwedel@sjsu.edu), San Jose State University, USA

The Joint Caucus of Socially Engaged Philosophers and Historians of Science (JCSEPHS) was founded in 2012 to promote research, educational, and public activities in history and philosophy of science that constructively engage matters of social welfare. The JCSEPHS seeks to bridge scholarly research and public debate on science funding, research ethics, race and gender in science, and other scientific and technological matters involved in public policy debates.

2015 Sponsored Sessions:

- How Studying the Past Can Make a Difference to the Future: How to Engage with Government and Beyond Using the History of Science (Thursday, 7:45 – 8:45 PM); Business Meeting immediately after.
- Roundtable: Historians of Science in the Public Sphere (Friday, 1:30 – 3:30 PM)

Women’s Caucus

Co-Chair: Gina Rumore (grumore@umn.edu), University of Minnesota, USA
Co-Chair: Kimberly Hamlin (hamlinka@miamioh.edu), Miami University, USA

The Women’s Caucus of the History of Science focuses on the role and status of women in the profession. The Caucus serves as a forum for those
interested in the history of women, as well as the wider role of gender in science, medicine, and technology. The caucus also helps sponsor and administer the Dependent Care Grants and a breastfeeding/family room at the annual meeting. The co-chairs of the Caucus act as a resource for the History of Science Society on questions pertinent to the role and status of women in the profession and in the Society.

2015 Sponsored Sessions:
- Women’s Caucus Breakfast (Friday, 7:30 – 8:45 AM)
- The Life of a Manuscript or Grant Application: From Submission to Acceptance (Friday, 12:00 – 1:15 PM)

Early Science Forum
Co-Chair: Jacqueline Feke (jfeke@waterloo.ca), University of Waterloo, Canada
Co-Chair: Courtney Roby (croby@cornell.edu), Cornell University, USA
The Early Science Forum represents the interests of scholars of scientific and technological work from antiquity through the seventeenth century. Our broad chronological, geographical, and subdisciplinary sweep is intended to foster communication and cooperation among scholars working on diverse topics who nevertheless face similar institutional and methodological obstacles. These include disciplinary fragmentation and marginalization, as well as the challenges posed by working primarily with materials that require additional language expertise or that prove difficult to access.

2015 Sponsored Sessions:
- The Materiality of Early Science (Friday, 9:00 – 11:45 AM)
- Early Science Forum Business Meeting (Saturday, 12:00 – 1:15 PM)

Earth and Environment Forum
Chair: Alistair Sponsel (alistair.sponsel@vanderbilt.edu), Vanderbilt University, USA
The Earth and Environment Forum is a lively group of scholars interested in histories of knowledge about the land, sea, and sky, and in all manner of physical, human, and life sciences as they have been practiced outdoors, in transit, or on a global scale. We share a long tradition of helping to welcome students into the discipline, and we warmly encourage any interested parties to join us for our annual get-together at HSS. At these meetings we make introductions between scholars, renew friendships, and hear updates about ongoing work in the history of the environmental and earth sciences.
2015 Sponsored Sessions:
- Earth and Environment Forum Annual Gathering (Friday, 12:00 – 1:15 PM)

Forum for History of Human Science
Chair: Jill Morawski (jmorawski@wesleyan.edu), Wesleyan University, USA
The FHHS was established to promote research, education, and scholarship in the history of human science; to provide a forum for discussion; and to foster interest in the history of human science among scholars, scientists, students, and the public.
The Forum subscribes to a broad definition of human science that encompasses such disciplines as anthropology, economics, geography, history, linguistics, political science, psychiatry, psychology, sociology, and statistics, as well as aspects of the biological and physical sciences, medicine, education, law, and philosophy.
2015 Sponsored Sessions:
- Human Nature in the Public Eye (Friday, 9:00 – 11:45 AM)
- Forum for History of Human Science Business Meeting and Distinguished Lecture (Saturday, 12:00 – 1:15 PM)

Forum for the History of Science in America
Chair: Hamilton Cravens (hcravens@iastate.edu), Iowa State University, USA
The Forum for the History of Science in America promotes research and education on the history of science in the Americas, encourages an interest in science among American historians, fosters historiographical and methodological excellence among historians, scientists, and others who might contribute to the understanding of science in America, and sponsors an annual prize for the best first book or article.
2015 Sponsored Sessions:
- Forum for the History of Science in America Business Meeting (Friday, 12:00 – 1:15 PM)

Forum for the History of Science in Asia
Chair: Lisa Onaga (fhsasia@gmail.com), Nanyang Technological University, Singapore
FHSAsia is devoted to furthering scholarship in the history of science, medicine, and technology in Asia. It aims to promote research and education in the history of science in Asia, to provide a forum for discussion, and to
foster and support international collaboration among scholars working in all areas related to the study and practice of the sciences in Asia.

2015 Sponsored Sessions:

- Forum for the History of Science in Asia Business Meeting (Saturday, 12:00 – 1:15 PM)
- Roundtable: Translation as Process: Border-Crossing Knowledge, Materialities, and Concepts in the History of Science in Asia (and Beyond) (Saturday, 1:30 – 3:30 PM)

Forum for the History of the Chemical Sciences
Chair: Peter Ramberg (ramberg@truman.edu), Truman State University, USA
The Forum for the History of the Chemical Sciences (FoHCS) was organized in 2011 to facilitate the promotion of the history of the chemical sciences, broadly conceived, within the History of Science Society. Its mission is 1) to organize sessions at annual meetings of the HSS and at other meetings in which the HSS is taking part, and 2) to encourage conversations both with professional historians of alchemy and chemistry in other historical societies and historically minded chemists in professional chemical societies in the US and abroad.

2015 Sponsored Sessions:

- Forum for the History of the Chemical Sciences Business Meeting (Saturday, 12:00 – 1:15 PM)
- Chemistry in (Practical) Context: Connecting Eighteenth-Century Chemistry to its Uses (Friday, 3:45 – 5:45 PM)
- After Ypres: The Integration of Science into War, Part I: Chemistry and Chemists through War (Saturday, 3:45 – 5:45 PM) (co-sponsored)
- After Ypres: The Integration of Science into War, Part II: Reactions to the Integration of Science into War (Saturday, 9:00 – 11:00 AM) (co-sponsored)

Forum for the History of the Mathematical Sciences
Chair: Karen Parshall (khp3k@virginia.edu), University of Virginia, USA
The Forum for the History of the Mathematical Sciences serves as a focal point for historians of the mathematical sciences within the History of Science Society (HSS). It became an officially recognized HSS interest group in 2008 in an effort both to encourage the participation of historians of the mathematical sciences in the HSS and to raise awareness of the subdiscipline in the history of science community, as opposed to the mathematics community where it has long been firmly institutionalized. FoHoMS has one
face-to-face business and brainstorming meeting each year at the HSS and regular e-mail exchanges throughout the rest of the year.

2015 Sponsored Sessions:

- Forum for the History of the Mathematical Sciences Luncheon (Friday, 12:00 – 1:15 PM)
- Re-Periodizing the History of Mathematics (Saturday, 3:45 – 5:45 PM)

Physical Sciences Forum
Chair: Amy Fisher (afisher@pugetsound.edu), University of Puget Sound, USA

The HSS Physical Science Forum is a voluntary association of individuals interested in furthering scholarship in the history of the physical sciences as broadly understood, including but not limited to: physics; earth, space, and atmospheric science; astronomy; and materials science. It will help forge a more coherent community for those with a core specialty in these sub-fields with a particular emphasis on developing the connections linking these sub-fields and exploring their resonance with wider scholarship. The ultimate goals are: to foster generative dialogue and interaction within such a community for the sake of refining historiography and deepening historical insights; to maximize scholarly contributions to the history of science; and to integrate historians of physical science more closely with the history of science community.

2015 Sponsored Sessions:

- Physical Sciences Forum Business Meeting and Distinguished Lecture (Friday, 12:00 – 1:15 PM)
- Roundtable: The Role of Biography in the History of the Physical Sciences (Friday, 1:30 – 3:30 PM)
- Technological Systems Large and Small: Physics and Industry in Postwar America (Friday, 3:45 – 5:45 PM)
HISTORY OF SCIENCE SOCIETY MEETING PROGRAM
November 19 – 22, 2015
San Francisco, California

Please be sure to read the printed errata for any updates to this program. Further updates and information during the meeting will be announced on the Twitter feed (@hssonline), using the hashtag #hss15, and posted at the registration desk.

All session rooms are on the second level unless otherwise noted.

A note on the use of social media: This year the HSS will again take full advantage of all that social media (blogging, Twitter, Facebook, etc.) has to offer. That means you may see audience members on their mobile devices during talks. We want to encourage this kind of digital engagement among our members, so please keep in mind that if you see someone on their mobile device, they may simply be sending out messages about the conference to a wider audience. For those using social media during conference events, please be aware of your surroundings and keep it positive!

Nursing Mothers’ Room: Cambridge Room, on the 2nd level, has been designated as a nursing mothers’ room. It will be available for use during the hours listed below.

Quiet Room: The Quiet Room will be set with tables for study, quiet conversation, and similar activities.

Registration: The registration desk will be in the Mezzanine Lobby. There will also be additional packet pick-up only on Thursday evening.

Book Exhibit: The book exhibit will be held in California East and West (2nd level).

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<th>Registration Desk</th>
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* Thursday evening registration will be for packet pickup only outside Elizabethan A.

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Thursday, November 19, 2015

HSS THATCamp
St. Francis Suite – East Room and Club Room (12th Level)
See thatcamphss.wordpress.com for more details. Registration is free, but required.

HSS Council Meeting
Elizabethan C

Developing Disciplines
Oxford Room
Chair: Frederick R. Davis (Florida State University, USA)

- “Refracting Light, Projecting Shadows: The Telescope and the Transformation of Kepler’s Optics,” Raz Chen-Morris (Bar-Ilan University, Israel)
- “Uncovering Laws of Vital Organization with Chemistry? The Case of Nutrition in the 19th Century,” Cecilia Bognon (University Paris 1 Panthéon-Sorbonne, France)
- “Migrating from the Field: The Field Museum Exodus of 1907-1908,” Matthew Laubacher (Ashford University, USA)
- “Modernity, Science, Archaeology. Challenging a Narrative,” Mirjam Brusius (University of Oxford, UK)
- “A History of Ancient DNA Research: A History of Celebrity Science,” Elizabeth Jones (University College London, UK)

Diseases, Disorders, Disabilities
Elizabethan A
Chair: Toby Appel (Yale University, USA)

- “Bacteriology and Immigrants’ Selection between Europe and Brazil in the Late 19th and Early 20th Centuries,” Fernanda Rebello-Pinto (Federal University of Bahia, Brazil)
• “'Know Your Risk': Otto Schaefer's Epidemiologic Investigations into Native-Canadian Cancer, 1953-1985,” Jennifer Fraser (University of Toronto, Canada)
• “Regulating Alcohol at the End of the Twentieth Century: From Treating the Alcoholic to Protecting the Victims of the Alcoholic's Behavior,” Erica O'Neil (Arizona State University, USA)
• “The Question of Prevention: Genetics, Disability, and Abortion, 1960-1980,” Adam Turner (University of Oregon, USA)
• “One Elephant in the Room: Genetic and Social Aspects of Naming in Biomedicine,” Andrew Hogan (Creighton University, USA)

Internationalism
Kent Room
Chair: Travis Weisse (University of Wisconsin–Madison, USA)
• “The British Association for the Advancement of Science at War: Remaking Science-State Relations during the Great War,” Don Leggett (Nazarbayev University, Kazakhstan)
• “International Science in Japanese Eyes: Joji Sakurai, the International Research Council, and the Pacific Science Association after the First World War,” Yoshiyuki Kikuchi (Graduate University for Advanced Studies, Japan)
• “Prince of Science: Albert I of Monaco (1848–1922),” Antony Adler (Harvard University, USA)
• “Exposing Human Rights,” Linda Marie Richards (Oregon State University, USA)

Knowledge in Motion
Essex Room
Chair: Vera Keller (University of Oregon, USA)
• “Knowledge Bound and Unbound: Circulating the Scientific Periodical in the 18th Century,” Noah Moxham (University of St Andrews, UK)
• “Rediscovering the Earth and the Universe through China: Tenkei wakumon and Astronomy in Early Modern Japan,” Wei Yu Wayne Tan (Dartmouth College, USA)
• “Alpini’s Balsam: Natural Knowledge across the Eastern Mediterranean,” Barbara Di Gennaro (Yale University, USA)
• “Geographical Knowledge and the Geography of Knowledge in Central America, c. 1780-1840,” Sophie Brockmann (School of Advanced Study, University of London, UK)
• “Principles of Correspondence: What P.A.M. Dirac’s Correspondence Says About Scientific Communication,” Aaron Wright (Harvard University, USA)
Religion and Science

Victoria Room

Chair: Adam Mosley (Swansea University, UK)

- “Biblical History in the Natural Philosophy of John Wallis (1616-1703),” Adam Richter (University of Toronto, Canada)
- “The Heresies of Bruno and Galileo,” Alberto Martinez (University of Texas at Austin, USA)
- “Politics, the Brain, and Public Health: The Deployment of Medical Knowledge in Late Antique Sermons,” Jessica Wright (Princeton University, USA)
- “The Epistemology of Collecting. Artists’ and Artisans’ Collections in Early Seventeenth-Century Antwerp,” Marlise Rijks (Ghent University, Belgium; Max Planck Institute for the History of Science, Germany)

Rethinking Place and Space

Hampton Room

Chair: Sheila Rabin (Saint Peter’s University, USA)

- “Mathematical Qualities of Boundary and the Changing Content and Practice of English Land Law, 1520-1620,” Jason Rozumalski (University of California, Berkeley, USA)
- “Collecting Evolution: The 1905-06 Galápagos Expedition from the California Academy of Sciences,” Matthew James (Sonoma State University, USA)

Science Pedagogy and Education

Yorkshire Room

Chair: Emily Redman (University of Massachusetts Amherst, USA)

- “Sir Oliver Lodge: Physicist and Public Educationist,” Shawn Bullock (Simon Fraser University, Canada)
- “Animated Mathematics: Ludwig Muench’s Experimental Cartoons,” Anja Sattelmacher (Max Planck Institute for the History of Science, Germany)
- “Mathematics Education under the Nazis,” Samuel Huneke (Stanford University, USA)
- “The Teaching of Biological Evolution in Mexico,” Erica Torrens (National Autonomous University of Mexico, Mexico)

Tests and Standards

Olympic Room

Chair: Victoria Höög (Lund University, Sweden)
Thursday, November 19, 1:30 PM – 3:30 PM

- “From Fat to Weight: Fatness as a Health Risk in Dutch Newspaper Ads, 1890–1940,” Hieke Huistra (Utrecht University, Netherlands)
- “Experiments in the Silence Room: Phyllis M.T. Kerridge's Experiments on Hearing Loss,” Jaipreet Virdi-Dhesi (Brock University, Canada)
- “From Amateur Psychology to Corporate America: The Case of the Myers-Briggs Type Indicator,” Kira Lussier (University of Toronto, Canada)

The Well-Tempered Self

Elizabethan B

Chair: Carol Pal (Bennington College, USA)

- “Smallpox, Female Sensitivity, and Inoculation Rhetoric in Early Modern England,” Clara Steinhagen (University of Toronto, Canada)
- “The Utility of the Spleen: The Body, Medicine, and Aesthetic Judgment in Eighteenth-Century London,” Alexander Wragge-Morley (New York University, USA)
- “Science, Movie Censorship, and the Sanctity of the Soul on the Silver Screen,” David Kirby (University of Manchester, UK)
- “Televising Psyche: The Hippies, Cybernetics and the Birth of Video Psychotherapy,” Carmine Grimaldi (University of Chicago, USA)

3:30 PM – 3:45 PM

Coffee Break

Mezzanine Lobby, Elizabethan D

3:45 PM – 5:45 PM

(Note: Each presenter will have 24 minutes)

Chemistry in Action

Oxford Room

Chair: David Sacks (Reed College, USA)

- “Lifeblood: Chemistry of Blood in Eighteenth-Century Medicine,” Ruben Verwaal (University of Groningen, Netherlands)
"Boerhaave’s Mineral Chemistry and its Influence on Eighteenth-Century Pharmacy in the Northern Netherlands,” Marieke Hendriksen (University of Groningen, Netherlands)

“The Fashioning of a Philosophical Chemist: The Philosophical Transactions Papers of James Keir (1776, 1787 and 1790),” Kristen Schranz (University of Toronto, Canada)

“Condensed Meat and Bread for the ‘Best Fed Army in the World’: Eben Norton Horsford’s Marching Ration for the Union Army in the Civil War,” Molly Laas (University of Wisconsin–Madison, USA)

Epistemic Practices

Chair: Daniel Liu (Chemical Heritage Foundation; University of Wisconsin–Madison, USA)

“Tracing Interior Landscapes: Chinese Medical Epistemologies and Representations of Jingluo (1948-1966),” Lan Li (Massachusetts Institute of Technology, USA)

“Sensing Theory and Crafting Proof: The History of a Twentieth-Century Mathematics Problem,” Clare Kim (Massachusetts Institute of Technology, USA)

“Micro-RNA Research: A Case for Reductionism in Post-Genomic Molecular Genetics,” Valerie Racine (Arizona State University, USA)

“The Biology of the Spherical Horse and the Molecular Orientation of Life, 1917-1972,” Daniel Liu (Chemical Heritage Foundation; University of Wisconsin–Madison, USA)

Genetics and Eugenics

Chair: Kele Cable (University of Minnesota, USA)

“For the Betterment of Mankind: Ideas about Selective Breeding in French and German Enlightenment Thinking,” Maren Lorenz (Ruhr University Bochum, Germany)

“Davenport in Japan: (Broken) Circuits in Transnational Genetics and Eugenics after World War II,” Kristin Roebuck (Cornell University, USA)

“On the ‘Americanization’ of Postwar Korean Science: Yung-sun Kang and the Origin of Human Population Genetics in South Korea,” Jaehwan Hyun (Seoul National University, South Korea)

“Human Genetics in Cold War Mexico and Transnational Science: Human Population Genetics in the Work of Rubén Lisker and Alfonso León de Garay,” Ana Barahona (National Autonomous University of Mexico, Mexico)

“Science Policy on Medical Genetics: Knowledge and Values of Human Heredity in the Swedish Welfare State,” Anna Tunlid (Lund University, Sweden)
**Historical Narratives**

*Olympic Room*

Chair: David Hecht (Bowdoin College, USA)

- “Chemists’ Histories and the History of Chemistry,” Catherine Jackson (University of Wisconsin–Madison, USA)
- “Replicating Heinrich Hertz’s Electromagnetic Wave Experiment in 1887,” Chen-Pang Yeang (University of Toronto, Canada)
- “Telling the Origins of the Neutral Theory of Ecology,” William Bausman (University of Minnesota, USA)
- “Interpreting Oral Histories in Studies of Contemporary Science: The Case of Recombinant DNA Technology,” Mark Jones (Life Sciences Foundation, USA)
- “Nobel Prizes and the Construction of Innovation Narratives: The Case of the Blue LED,” Benjamin Gross (Chemical Heritage Foundation, USA)

**Managing Information, Analyzing Systems**

*Essex Room*

Chair: Heidi Knoblauch (Bard College, USA)

- “Biomedicine, Hospital Life, and the Invention of ARPANET,” David Theodore (McGill University, Canada)
- “Undertaking the Neuro: Brain Banks and the Postmortem Production of Mental Illness,” Scott Phelps (McGill University, Canada)
- “Situating Data in the Archives: Facilitating Scientific Reuse, Humanistic Study, and the Preservation of a Future Record of Science,” Bethany Anderson (University of Illinois at Urbana-Champaign, USA)

**Scientific Representation**

*Yorkshire Room*

Chair: Courtney Thompson (Yale University, USA)

- “‘This story, which has the style of a novel, […] is in reality a clinical observation’: Representing Hypnotism between Science and Literature in Late Nineteenth-Century France,” Kim Hajek (University of Queensland, Australia)
- “Envisioning Nature: Four Competing Nineteenth-Century Diagrams of the Living World,” Greg Priest (Stanford University, USA)
- “Why Did Ernst Haeckel Copy Wilhelm Giesbrecht’s Copepod Drawings?” Katharina Steiner (University of Zurich, Switzerland)
Thursday, November 19, 3:45 PM – 5:45 PM

- “Performing Trigonometry: Scientific Parody and Women’s Mathematical Abilities in Late-Nineteenth-Century America,” Andy Fiss (Michigan Technological University, USA)
- “Evangelizing Science: Scientific Expertise and the Aesthetics of Wonder in Irwin Moon’s Film Series *Sermons from Science*, 1945-1960,” William Macauley (University of Manchester, UK)

**State and Nation**

*Hampton Room*

Chair: David K. Robinson (Truman State University, USA)

- “From Trivial Amusement to Heroic Science: French Ballooning in the Wake of the Franco-Prussian War,” Patrick Luiz De Oliveira (Princeton University, USA)
- “Statistics or State-istics? A History of Scientific Representations of the Nation-State (Belgium, 1846-1947),” Kaat Louckx (Ghent University, Belgium)
- “A Science Policy by Accident? Historical Perspectives on Science and the Canadian State, 1968 – 1980,” Rebecca Moore (University of Toronto, Canada)
- “‘To live as reptiles in our desert of Mapimi’: From Revolutionary Science to the New Cosmopolitan Biology of Conservation in Twentieth-Century Mexico,” Julio Díaz (National Autonomous University of Mexico, Mexico)

**Textual Studies**

*Sussex Room*

Chair: Shannon K. Supple (University of California, Berkeley, USA)

- “Tommaso Del Garbo on Conception: A Reappraisal,” Kurt Boughan (The Citadel, USA)
- “Teaching Astronomy in Medieval Western Europe: The *Dragmaticon* as Predecessor to *De Sphaera*,” James Brannon (University of Wisconsin–Madison, USA)
- “Visual Scholia in the Margins,” Eunsoo Lee (Stanford University, USA)
- “Dr. Louis Godeffroy’s Personal Encyclopedia: A Seventeenth-Century French Doctor’s Attempt to Organize Knowledge,” Sarah Lewis-Descamps (University of Orléans, France)

**Time and Temporality**

*Kent Room*

Chair: Julia Bursten (San Francisco State University, USA)

- “G. Evelyn Hutchinson’s Geochronometric Laboratory and the Construction of Ecological Time,” Laura Martin (Harvard University, USA)
Thursday, November 19, 3:45 PM – 5:45 PM

- “Calculating Carbon: Interdisciplinary Science, Radiometric Dating and Evolutionary Time, 1900-1952,” Emily Kern (Princeton University, USA)
- “The Scale of Change: Paleoecologists and Discussions of Global Change Science,” Melissa Charenko (University of Wisconsin–Madison, USA)
- “Beyond ‘Predict and Control’: The Emergent Futures of 1970s Business Scenario Planning,” Bretton Fosbrook (York University, Canada)

Tracing Scientific Actors

Elizabethan B

Chair: Brenda Kellar (Oregon State University, USA)

- “The Horse’s Mouth: Citizen Science in American Sporting Weeklies,” Brian Tyrrell (University of California, Santa Barbara, USA)
- “Practising Medicine in a Segregated World,” Harshad Topiwala (University of Kent, UK) and Anna Greenwood (Nottingham University, UK)
- “In the Field: The Transformation of Biological Research in Post-Colonial Kenya,” Amanda Lewis (Michigan State University, USA)
- “Enlightenment Ethnobotany: Plants, Print, and Practice in the Late-Eighteenth-Century Pacific,” Geoff Bil (University of British Columbia, Canada)
- “Chemistry and Commerce in the Dutch East India Company: German Experts in Southeast Asian Gold Mines,” Matthew Sargent (University of Southern California, USA)

6:00 PM – 7:30 PM

Plenary Session: Passing the Book: Bringing Early Modern Readers to Life

Colonial Room (Mezzanine Level)

This session will reconstruct and re-enact the formation of one of colonial New England’s most important collections of annotated books: the library of John Winthrop, a founder and governor of the Massachusetts Bay Colony, and his family. From alchemy to ancient history, medicine to hop-brewing, the Winthrop library captures a trans-Atlantic world of knowledge. The books’ past owners provide an impressive *dramatis personae*: John’s father, Adam Winthrop, a Cambridge-educated lawyer; John’s son, John Jr., an entrepreneur and alchemist who served as governor of Connecticut and became a Fellow of the Royal Society; and some female members of the family, notably Adam’s wife Anne. Some books came from the library of the great Elizabethan astrologer and magus John Dee. Others were sent by influential figures in seventeenth-century science, including the antiquarian Elias Ashmole, mathematician Edward Howes, and Dee’s son, Arthur – allowing us to follow the transmission of learned disciplines across the Atlantic.

Participants:
Ann Blair (Harvard University, USA)
Jennifer Rampling (Princeton University, USA)
Frederic Clark (New York University, USA)
Anthony Grafton (Princeton University, USA)
Madeline McMahon (University of Cambridge, UK)
Richard Calis (Princeton University, USA)

Opening Reception
California East and West, Elizabethan C and D
Light hors d'oeuvres and cash bar at the opening of the book exhibit.
The Opening Reception is sponsored the University of Chicago Press.

How Studying the Past Can Make a Difference to the Future: How to Engage with Government and Beyond Using the History of Science
Elizabethan A
A facilitated panel sponsored by the Joint Caucus for Socially Engaged Philosophers and Historians of Science (JCSEPHS), followed by the JCSEPHS business meeting.
Facilitator: Janet D. Stemwedel (San Jose State University, USA)
Participants:
  • Rachel A. Ankeny (University of Adelaide, Australia)
  • James Fleming (Colby College, USA)
  • Vivette García Deister (National Autonomous University of Mexico, Mexico)
  • Noortje Jacobs (Maastricht University, Netherlands)
  • Yi-Ping Lin (National Yang-Ming University, Taiwan)
  • Jane Maienschein (Arizona State University, USA)

HSS Graduate and Early Career Caucus Mixer
Golden Gate Tap Room – 449 Powell St.
Graduate students and early careerists are heartily welcomed to join your fellow (maybe not so) young’uns at the Golden Gate Tap Room for pub snacks, refreshments, and stimulating conversation. The Tap Room is one block north of the meeting hotel, on the same side of Powell Street.
This event is sponsored by the Department of the History of Science, University of Wisconsin–Madison; the History and Philosophy of Science Graduate Program at the University of Notre Dame; and David Kaiser, MIT Germeshausen Chair funds.
FRIDAY, NOVEMBER 20, 2015

7:30 AM – 8:45 AM

Women's Caucus Breakfast

Colonial Room (Mezzanine Level)

Tickets can be purchased at the registration desk. Graduate students and others without tickets are invited and welcome to attend.

9:00 AM – 11:45 AM

Note: Coffee break 10:00 – 10:15 AM

California East and West, Mezzanine Lobby

Back with a Flourish: Social and Epistemic Factors in the Postwar Renaissance of General Relativity

Elizabethan A

Chair and Organizer: Roberto Lalli (Max Planck Institute for the History of Science, Germany)

Co-Organizer: Alexander Blum (Max Planck Institute for the History of Science, Germany)

Commentator: Diana Kormos-Buchwald (California Institute of Technology, USA)

- “Coordinated Blasts: H-Bomb Simulations and the Origins of Numerical Relativity,” David Kaiser (Massachusetts Institute of Technology, USA)
- “From Dense Matter to Gravitational Collapse: Preparing the Emergence of Relativistic Astrophysics,” Luisa Bonolis (Max Planck Institute for the History of Science, Germany)
- “A Farewell to Unification: How the Failure of Quantum Gravity Research Drove the Renaissance of Relativity,” Alexander Blum and Roberto Lalli (Max Planck Institute for the History of Science, Germany)

Biography as Historiographical Genre: Examples from Nineteenth-Century Germany

Kent Room

Chair and Commentator: Deborah Coen (Barnard College, Columbia University, USA)

Organizer: Peter Ramberg (Truman State University, USA)

- “Friedrich Wilhelm Bessel and the Geopolitics of Biography,” Kathryn Olesko (Georgetown University, USA)
- “Scientific Celebrity: The Paradoxical Case of Emil du Bois-Reymond,” Gabriel Finkelstein (University of Colorado Denver, USA)
The Darwinian Revolution in Victorian Literature

*Elizabethan C*

Chair: Mark Borrello (University of Minnesota, USA)
Organizer: Ian Hesketh (University of Queensland, Australia)

- “Darwin and the Eye,” Meegan Kennedy (Florida State University, USA)
- “Darwin and the Sensation Novelists,” Jonathan Smith (University of Michigan–Dearborn, USA)
- “Charles Kingsley, ‘An Excellent Darwinian,’” Piers Hale (University of Oklahoma, USA)
- “Darwin and the Historians,” Ian Hesketh (University of Queensland, Australia)
- “Debunking the Myth of the ‘Non-Darwinian Revolution,’” Michael Ruse (Florida State University, USA)

Form and Formalism

*Olympic Room*

Chair and Organizer: Alma Steingart (Harvard University, USA)
Commentator: Lorraine Daston (Max Planck Institute for the History of Science, Germany)

- “Greek Mathematical Form: Beginnings,” Reviel Netz (Stanford University, USA)
- “Christ^3 or the Geometry of Jesus in the Central Middle Ages,” Megan C. McNamee (University of Michigan, USA)
- “Formfitting: Solidifying Bodies in Sixteenth-Century Europe,” Noam Andrews (Harvard University, USA)
- “Formalizing Abstractions in Cold War Mathematics,” Alma Steingart (Harvard University, USA)

Human Nature in the Public Eye

*Yorkshire Room*

Chair and Commentator: Jamie Cohen-Cole (George Washington University, USA)
Organizers: Debbie Weinstein (Brown University, USA) and Erika Milam (Princeton University, USA)

Sponsored by the Forum for History of Human Science.

- “The Ascent of Man and the Politics of Humanity’s Evolutionary Future,” Erika Milam (Princeton University, USA)
Friday, November 20, 9:00 AM – 11:45 AM

- “‘Freedom is the Recognition of Necessity’: Garrett Hardin’s Approach to Popular Science and Political Advocacy,” Jason Oakes (University of California, Davis, USA)
- “The Year that Criticizing Science Moved from Left to Right in the United States,” Myrna Perez Sheldon (Rice University, USA)
- “‘Bonobos do have more style’: Frans de Waal and Late 20th c. Explanations for War and Peace,” Debbie Weinstein (Brown University, USA)

The Materiality of Early Science

Essex Room

Chair: Jacqueline Feke (University of Waterloo, Canada)
Commentator and Organizer: Courtney Roby (Cornell University, USA)
Sponsored by the Early Science Forum

- “Encyclopedic Clockwork: Technologies of Time,” Elly Truitt (Bryn Mawr College, USA)
- “The Astronomical Compendia of John Chortasmenos (c. 1404-1414), Patriarchal Notary, Teacher, and Copyist,” Anne-Laurence Caudano (University of Winnipeg, Canada)
- “The Fifteenth-Century Astrologers’ Codex as Toolbox: Exploring the Social Worlds of BL Add Ms 34603,” Richard Kremer (Dartmouth College, USA)
- “By Their Own Hands: The Drawings of the Early Académie Royale des Sciences,” Katherine Reinhart (University of Cambridge, UK)

Openness and its Discontents in the History of Scientific Information

Elizabeth B

Chair and Commentator: Gregory Radick (University of Leeds, UK)
Organizer: Iain Watts (Princeton University, USA)

- “The Periodical Commons and the Tyranny of Distance in Science, 1790-1820,” Iain Watts (Princeton University, USA)
- “Public or Private? London Medical Lectures and the Journals that Printed Them, 1820-40,” Carin Berkowitz (Chemical Heritage Foundation, USA)
- “Access Fantasies at the Fin de Siècle,” Alex Csiszar (Harvard University, USA)
- “They gave it away: Building an International Policy for Data Sharing in the Human Genome Project,” Kathryn Maxson (Princeton University, USA)

Science and Empire: New Agents, Spaces, and Connections

Hampton Room

Chair: Janet Browne (Harvard University, USA)
Commentator: Neil Safier (Brown University, USA)
Organizer: Jessica Ratcliff (Yale-NUS College, Singapore)
• “The East India Company, the Company’s Museum, and the Political Economy of Natural History in the Early Nineteenth Century,” Jessica Ratcliff (Yale-NUS College, Singapore)
• “From the Winds of the Bay of Bengal: Science, Empire and Self,” Sujit Sivasundaram (University of Cambridge, UK)
• “Moving Mountains: Maps, Ethnography, and the Making of Colonial North-East India and Upper Burma,” Thomas Simpson (University of Cambridge, UK)

Technologies, Data, and DNA: Contemporary Histories of Genomics

Chair: Ramya M. Rajagopalan (Life Sciences Foundation, USA)
Organizer: Christopher Donohue (National Human Genome Research Institute, USA)

• “Variations on a Chip: Polymorphisms, Microarrays, and Genomic Studies of Health and Disease,” Ramya M. Rajagopalan (Life Sciences Foundation, USA) and Joan H. Fujimura (University of Wisconsin–Madison, USA)
• “Beyond Ethics: The Scientific and Technological Development of the International HapMap Project, 1998 to 2005,” Christopher Donohue (National Human Genome Research Institute, USA)
• “Exploring MODs Culture and Communication: A History of Model Organism Databases (MODs) in Genomics Research,” Rachel A. Ankeny (University of Adelaide, Australia) and Sabina Leonelli (University of Exeter, UK)
• “Globalizing Genomics: The Emergence of the International Nucleotide Sequence Database Collaboration,” Hallam Stevens (Nanyang Technological University, Singapore)

Thermometers Incorporated

Chair and Commentator: Jan Golinski (University of New Hampshire, USA)
Organizer: Yulia Frumer (Johns Hopkins University, USA)

• “The Usefulness of Thermometers: Instruments and the Chemical Arts in Eighteenth-Century Britain,” John Powers (Virginia Commonwealth University, USA)
• “Searching for Unknown: Thermometers in Early Nineteenth-Century Japanese Astronomy,” Yulia Frumer (Johns Hopkins University, USA)
• “Braided Science: Thermometers, Modern Ayurveda, and the Electromagnetism of Bile, c. 1870-1920,” Projit Mukharji (University of Pennsylvania, USA)
• “Mercurial Communications: On the Historical Conjunction of Telephone and Thermometer,” Jeremy Greene (Johns Hopkins University, USA)
Topographies and Geographies of the Body: Circulation and Locality in Early Modern Anatomical Knowledge

Oxford Room

Chair and Commentator: Craig Martin (Oakland University, USA)
Organizer: Maria Pia Donato (The National Center for Scientific Research, France)

- “Vesalius’s Skeletons and Vernacular Anatomy,” Cynthia Klestinec (Miami University, USA)
- “Papal Anatomy in the News: The Circulation of Anatomical Evidence in the Early Modern Catholic World,” Bradford Bouley (Pennsylvania State University, USA)
- “Putting Medical Dissection in its Place: Sites, Spaces, and Knowledge,” Maria Pia Donato (The National Center for Scientific Research, France)
- “Skeletons, Provenance, and Identity, 1650-1800,” Anita Guerrini (Oregon State University, USA)

Working with Paper: Gendered Practices in the History of Knowledge

Georgian Room (Mezzanine Level)

Chair: Elizabeth Siegel Watkins (University of California, San Francisco, USA)
Commentator: Sally Gregory Kohlstedt (University of Minnesota, USA)
Organizer: Carla Bittel (Loyola Marymount University, USA)

- “Paper Cures: Managing Knowledge and Health in the Early Modern Household,” Elaine Leong (Max Planck Institute for the History of Science, Germany)
- “Tools of the Phrenological Trade: Gender, Paper, and Practices in Antebellum America,” Carla Bittel (Loyola Marymount University, USA)
- “The Colorists: Hand-Coloring Maps in Modern Cartography,” Nils Güttler (Swiss Federal Institute of Technology in Zurich, Switzerland)
- “Gendered Data: Paper Technologies and Labor Division in Nineteenth-Century Census Compilation,” Christine von Oertzen (Max Planck Institute for the History of Science, Germany)

HSS at Work Business Meeting

Sussex Room

See p. 12 for more information on HSS at Work.
Committee on Meetings and Programs Meeting

The Oak Room Restaurant (1st Level)

The Life of a Manuscript or Grant Application: From Submission to Acceptance

Elizabethan B
Chair: Kimberly Hamlin (Miami University)
Sponsored by the HSS Women’s Caucus
Participants:
- H. Floris Cohen (Editor of Isis)
- Karen Merikangas Darling (Senior Editor, University of Chicago Press)
- Kimberly Hamlin (Miami University, USA)
- Fred Kronz (National Science Foundation, USA)

Roundtable: Communicating Beyond the Ivory Tower

Elizabethan A
Chair and Organizer: Michal Meyer (Chemical Heritage Foundation, USA)
Sponsored by HSS at Work
Participants:
- “Turning Research into Magazine Stories,” Michal Meyer (Chemical Heritage Foundation, USA)
- “Digital Exposure and Academic Expertise,” Alex Wellerstein (Stevens Institute of Technology, USA)
- “From Museums to (Social) Media,” Benjamin Gross (Chemical Heritage Foundation, USA)
- “Digital Storytelling,” Carla Nappi (University of British Columbia, Canada)

Physical Sciences Forum Business Meeting and Distinguished Lecture

Elizabethan C
“2 Instruments and a Duality: Helmholtz’s Energie and Aesthetics,” M. Norton Wise (University of California, Los Angeles, USA)
See p. 17 for more information on the Physical Sciences Forum.

Forum for the History of Science in America Business Meeting

Yorkshire Room
See p. 15 for more information on the Forum for the History of Science in America.
Forum for the History of the Mathematical Sciences Luncheon
*Scala’s Bistro (432 Powell St.)*
See p. 16 for more information on the Forum for the History of the Mathematical Sciences.

Earth and Environment Forum Annual Gathering
*Olympic Room*
See p. 14 for more information on the Earth and Environment Forum.

Graduate and Early Career Caucus CV Review
*Sussex Room*

Poster Display
*2nd Level*
The posters for this year’s poster session will be displayed in various locations on the 2nd level during the afternoon. They will be moved to the Grand Ballroom for the evening reception and poster session, at which time the creators will be on hand to discuss their work with attendees.

Roundtable: Computational Methods in Network Analysis for the History of Science
*Kent Room*
Chair: Jessica Otis (Carnegie Mellon University, USA)
Organizer: Meredith Beck Sayre (Indiana University, USA)
- “Reconstructing a Network of Scholarly References,” Philip Palmer (University of California, Los Angeles, USA)
- “The Six Degrees of Francis Bacon,” Jessica Otis (Carnegie Mellon University, USA)
- “Best Practices for Using Digital History to Study Early-Modern Networks,” Marcelo Aranda (Stanford University, USA)
- “Vogon Web: Creating Contextualized Relationships Online,” Julia Damerow and Erick Peiron (Arizona State University, USA)
Roundtable: Diagrammatic Notation Systems

*Hampton Room*
Chair and Organizer: Tamara Caulkins (Oregon State University, USA)
Commentator: Daniel Rosenberg (University of Oregon, USA)

- “William Herschel’s Mapping of the Cosmos,” Woodruff T. Sullivan III (University of Washington, USA)
- “Jakob Steiner’s Virtual Geometry,” Jemma Lorenat (Pitzer College, USA)
- “Euclid’s *Elements*,” Eunsoo Lee (Stanford University, USA)
- “Darwin’s Tree of Life,” Greg Priest (Stanford University, USA)
- “Movement Notation Systems in the *Encyclopédie*,” Tamara Caulkins (Oregon State University, USA)

Roundtable: Economies, More than Moral, and the History of Science

*Victorian Room*
Chair and Organizer: Dan Bouk (Colgate University, USA)

- “Japanese Microbial Gardens and Ecologies of Production,” Victoria Lee (Max Planck Institute for the History of Science, Germany)
- “White Paper, Gray Literature,” Courtney Fullilove (Wesleyan University, USA)
- “Istanbul, an Epistemic Clearinghouse,” B. Harun Küçük (University of Pennsylvania, USA)
- “Metropolitan Life’s Spinning Discs,” Dan Bouk (Colgate University, USA)

Roundtable: Historians of Science in the Public Sphere

*Georgian Room (Mezzanine Level)*
Sponsored by the Joint Caucus for Socially Engaged Philosophers and Historians of Science (JCSEPHS)
Chair and Organizer: Joshua Howe (Reed College, USA)
Participants:
- Joshua Howe (Reed College, USA)
- Erik M. Conway (Jet Propulsion Laboratory, USA)
- Jane Maienschein (Arizona State University, USA)
- Alice Dreger (Independent Scholar, USA)
- Robert Proctor (Stanford University, USA)

Roundtable: History of Science Society’s Outreach to Historians of Science in India and South Asia

*Olympic Room*
Chair and Commentator: Angela Creager (Princeton University, USA)
Organizer: Somaditya Banerjee (University of Idaho, USA)
Participants:
- Somaditya Banerjee (University of Idaho, USA)
- Rajit Mazumder (DePaul University, USA)
- Gustave Lester (Harvard University, USA)

**Roundtable: The Promises of Science: Historical Perspectives**

*Oxford Room*

Chair and Organizer: Annette Mülberger (Autonomous University of Barcelona, Spain)

Commentator: Pedro Raposo (Adler Planetarium, USA)

- “Promises of Positivist Psychology (1855-1945),” Annette Mülberger (Autonomous University of Barcelona, Spain)
- “Popular Astronomy and the Promise of ‘Social Peace’ Around 1900: The Case of Camille Flammarion,” Agustí Nieto-Galan (Autonomous University of Barcelona, Spain)
- “The Promise of Atomic Energy and the Contested Emergence of Atomic Expertise, 1945-1946,” Waqar Zaidi (Lahore University of Management Sciences, Pakistan)
- “Cheap Promises: Prescription Diets for People and Other Animals,” Anya Zilberstein (Concordia University, USA)

**Roundtable: Recent Scholarship and Future Directions in the History of Cold War Science**

*Yorkshire Room*

Chair and Organizer: Sarah Bridger (California Polytechnic State University, USA)

Participants:
- Paul Erickson (Wesleyan University, USA)
- Sarah Bridger (California Polytechnic State University, USA)
- Rebecca Lemov (Harvard University, USA)
- Jamie Cohen-Cole (George Washington University, USA)
- Joy Rohde (University of Michigan, USA)

**Roundtable: Revising the History of Evolutionary Synthesis: The Sixties**

*Elizabethan B*

Chair and Organizer: David Depew (University of Iowa, USA)

Commentator: Anya Plutynski (Washington University in St. Louis, USA)

- “Bibliometric History of the Modern Synthesis,” Jean Gayon (University Paris 1 Panthéon-Sorbonne, France)
- “The Molecular Basis of Evolution: From Excitement and Promises, to Confrontation,” Edna Suárez Díaz (National Autonomous University of Mexico, Mexico)
“Integrating Behavior Into the Synthesis,” Jean-Baptiste Grodwohl (Federal University of Bahia, Brazil)


“The Changing Ideological Context of the Synthesis,” David Depew (University of Iowa, USA)

**Roundtable: The Role of Biography in the History of the Physical Sciences**

_Elizabethan C_  
Chair and Organizer: Amy Fisher (University of Puget Sound, USA)  
Co-Organizer: Joseph D. Martin (Michigan State University, USA)  
Participants:  
- Cathryn Carson (University of California, Berkeley, USA)  
- David Cassidy (Hofstra University, USA)  
- Lillian Hoddeson (University of Illinois at Urbana-Champaign, USA)  
- Catherine Jackson (University of Wisconsin–Madison, USA)  
- Joel Klein (Columbia University, USA)  
- Mary Jo Nye (Oregon State University, USA)

**Roundtable: Translation as an Epistemic Tool in the History of Science**

_Elizabethan D_  
Chair: Elaine Leong (Max Planck Institute for the History of Science, Germany)  
Organizer: Sietske Fransen (University of Cambridge, UK; Max Planck Institute for the History of Science, Germany)  
- “The Introduction of ‘Chinese Medicine’ in Seventeenth-Century Europe,” Harold J. Cook (Brown University, USA)  
- “Multilingualism in Early Modern Europe,” Sietske Fransen (University of Cambridge, UK; Max Planck Institute for the History of Science, Germany)  
- “Translation Imagined as Fluid Dynamics and Turbulent Flow,” Carla Nappi (University of British Columbia, Canada)  
- “The Transfer of Scientific Illustrations from Nineteenth-Century Europe to East Asia,” Hansun Hsiung (Harvard University, USA)  
- “Twentieth-Century Scholars and Their Attitude towards Anglophone Science,” Michael Gordin (Princeton University, USA)

**Roundtable: Why Objects?**

_Elizabethan A_  
Chair: Berris Charnley (University of Oxford, UK)  
Organizers: Jim Endersby (University of Sussex, UK) and Donald Opitz (DePaul University, USA)
• “Mice,” Nicole Nelson (University of Wisconsin–Madison, USA)
• “Orchid,” Jim Endersby (University of Sussex, UK)
• “Wax,” Jenny Boulboullé (Columbia University, USA)
• “Lily,” Donald Opitz (DePaul University, USA)
• “Potato,” Dominic Berry (University of Edinburgh, UK)

**Roundtable: Worlds on Paper: How Do They Matter for History of Science?**

*Essex Room*

Chair and Organizer: Andrew Mendelsohn (University of London, UK)

Participants:

• “Natural History,” Alix Cooper (Stony Brook University, USA)
• “Natural Philosophy,” Ann Blair (Harvard University, USA)
• “Medicine (Libraries),” Andrew Mendelsohn (University of London, UK)
• “Anthropology and Biology,” Staffan Müller-Wille (University of Exeter, UK)
• “Medicine (Hospitals),” Volker Hess (Charité University Medicine Berlin, Germany)

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**3:30 PM – 3:45 PM**

**Coffee Break**

*California East and West, Mezzanine Lobby*

The Coffee Break is sponsored by the University of Chicago Press.

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**3:45 PM – 5:45 PM**

**Chemistry in (Practical) Context: Connecting Eighteenth-Century Chemistry to its Uses**

*Elizabethan D*

Chair: James Voelkel (Chemical Heritage Foundation, USA)

Organizer: Carin Berkowitz (Chemical Heritage Foundation, USA)

Sponsored by the Forum for the History of the Chemical Sciences

• “A Mineralogical Geography: Chemists, Geologists, and Mapmakers in Eighteenth-Century Sweden,” Charlotte Abney Salomon (Yale University, USA)
• “Enlightened Icons: Lomonosov’s Mosaics Factory and the Uses of Chemistry,” Simon Werrett (University College London, London, UK)
• “Chemical Physiology in the Scottish Enlightenment: Affinities of Fevers, Asthma, and Bile,” John Stewart (University of Oklahoma, USA)
• “The Case of Coal: Reconsidering the Relationship between Science, Industry, Materials, and Governance at the End of the Long Eighteenth Century,” Lissa Roberts (University of Twente, Netherlands)

The Child as Biomedical Problem in Twentieth-Century America

Olympic Room
Chair and Organizer: Cindy Connolly (University of Pennsylvania, USA)
Commentator: Beth Linker (University of Pennsylvania, USA)

• “Preventing Pediatric Poisoning or Profits?: ‘Safety Caps’ for Children, 1948-1973,” Cindy Connolly (University of Pennsylvania, USA)
• “Resisting Scientific Mothering: Folk Practices, Medicine Men, and Old Ladies,” Janet Golden (Rutgers University-Camden, USA)
• “Medical Equipment as Child’s Play in the Mid-Twentieth Century,” Susan Lederer (University of Wisconsin School of Medicine, USA)

Doing Science Education “Right”

Yorkshire Room
Chair and Commentator: Adam Shapiro (Unaffiliated, USA)
Organizer: Dana Freiburger (University of Wisconsin–Madison, USA)
Sponsored by the Committee on Education

• “‘If well conducted’ - Teaching Science to Survive in Early Nineteenth-Century American Catholic Colleges,” Dana Freiburger (University of Wisconsin–Madison, USA)
• “Science Education as Civic Education: Clear Thinking and the Problem of Transfer, 1900-1945,” Michelle Hoffman (American University of Central Asia, Kyrgyzstan; Bard College, USA)
• “The humanism inherent to us: Reforming Science Education in Colombian Schools, 1975-1985,” Nicolas Sanchez-Guerrero (University of Toronto, Canada; Colegio Alemán Alexander von Humboldt, Mexico)

Early Modern Music and Acoustics

Kent Room
Chair: Adam Fix (University of Minnesota, USA)
Organizer: Adam Fix (University of Minnesota, USA)

• “A Certain Correspondence: Pendulums and Musical Harmonies in Galileo’s Two New Sciences,” Maximilian Kemeny (University of Sydney, Australia)
• “Hammer and File: Robert Hooke’s Sound Development of Congruity and Incongruity,” Cindy Eric (University of Sydney, Australia)
• “A Science Superior to Music: Joseph Sauveur and the Estrangement of Music and Acoustics,” Adam Fix (University of Minnesota, USA)
Empire in Evolution: The Ambiguities of Human Diversity in Imperial Russia and the Soviet Union

Essex Room

Chair: Alexei Kojevnikov (University of British Columbia, Canada)
Organizer: Andy Byford (Durham University, UK)

- “Archimandrite Theophanes Reads Kant’s Anthropology: Entangled Concepts of Race in the Russian Empire,” Karl Hall (Central European University, Hungary)
- “The Politics of ‘Development’ in 1920s-30s USSR: Imperial Normativities and Sciences of the Child,” Andy Byford (Durham University, UK)
- Discussion to follow

Health and Wealth through Better Weather: The History of Meteorology and the Improvement of Nations

Elizabethan A

Chair and Organizer: Bridget Collins (University of Wisconsin–Madison, USA)

- “‘He ain’t sick. He’s just got the ager’: The Role of Medical Geography in the Decline of Malaria in the Upper Mississippi River Valley,” Bridget Collins (University of Wisconsin–Madison, USA)
- “From Appropriation to Biopolitics: Climate Knowledge as a Practice of Government,” Zeke Baker (University of California, Davis, USA)
- “Atmospherics of Illness: Cholera, Weather, and the Scientific Image,” Amanda Sciampacone (University of Warwick, UK)
- “Climate, Weather, and Cotton: Meteorology and Acclimatization in Napoleonic France and Italy,” Joseph Horan (Colorado School of Mines, USA)

Knowing “Nature” in the Ancient World

Elizabethan B

Chair and Organizer: Eduardo Escobar (University of California, Berkeley, USA)

- “Alexander/Iskander: Memorializing Ancient Science in Medieval India,” Owen Cornwall (Columbia University, USA)
- “Generating Natures in Aristotle,” Daryn Lehoux (Queen’s University, UK)
- “The Representation of Phenomena in Babylonian Astronomical Models,” Francesca Rocheberg (University of California, Berkeley, USA)
- “The Morphology of ‘Natural’ Materials in Ancient Babylonia,” Eduardo Escobar (University of California, Berkeley, USA)

Mobile Medicines: Cross-Cultural Exchanges in the Colonial Americas

Victorian Room

Chair: Margareta Lovell (University of California, Berkeley, USA)
Commentator: Kathleen Donegan (University of California, Berkeley, USA)
Organizer: Steffi Dippold (Kansas State University, USA)

- “Insidious Identities, Or When Poisons Became English,” Krista Turner (University of North Carolina, USA)
- “Andean Healers under Spanish Colonial Rule: Cinchona Bark in the Early Atlantic World,” Matthew James Crawford (Kent State University, USA)
- “A Mohawk Vomiting Stick: Odyssey of an Intercultural Object,” Steffi Dippold (Kansas State University, USA)

**The Other Side of Tethys: Asia and the Making of Modern Geology**

*Hampton Room*

Chair: Fa-ti Fan (Binghamton University, USA)
Organizer: Pratik Chakrabarti (University of Manchester, UK)

- “Inscriptions of Nature: Discovering the Indian Gondwanaland,” Pratik Chakrabarti (University of Manchester, UK)
- “Dixue and the Making of a Chinese Geology,” Shellen Wu (University of Tennessee, USA)
- “Geomythology and Indian Nationalism,” Joydeep Sen (University of Manchester, UK)
- “Shifting Grounds: Seismic Zoning in Early Communist China,” Fa-ti Fan (Binghamton University, USA)

**Psychologies of Belief: Pragmatism and Action in the Fin de Siècle**

*Oxford Room*

Chair and Commentator: Robert Brain (University of British Columbia, Canada)
Organizer: Francesca Bordogna (University of Notre Dame, USA)

- “Peirce, Clifford, Dispositions, and Scientific Practice,” Mathias Girel (École Normale Superieure, Paris, France)
- “Psychology’s Lamentations: Theology, Pragmatism and the Human Sciences in the Fin de Siècle,” Larry McGrath (Wesleyan University, USA)
- “The ‘Doctrine of Fascism’ and Psychological Pragmatism,” Francesca Bordogna (University of Notre Dame, USA)

**Suffering Made Global? Science and Law in a Toxic World**

*Georgian Room (Mezzanine Level)*

Chair: Tal Golan (University of California, San Diego, USA)
Organizer: Doogab Yi (Seoul National University, South Korea)

- “Causation in Late Modernity,” Tal Golan (University of California, San Diego, USA)
Title: "Representing Korean Smokers before the Court: Science and the Mobilization of American Tobacco Litigation in Korea," Doogab Yi and Jinyoung Park (Seoul National University, South Korea)

Title: "Industrial Hazards and Public Health Sciences in Contemporary Japan, Taiwan and Korea: A Tentative Analytical Framework," Paul Jobin (Paris Diderot University, France) and Hsin-hsing Chen (Shih Hsin University, Taiwan)

Title: "Spectroscopy on Trial: Chili Powder, Country of Origin, and the Boundaries of Regulatory Science," Buhm Soon Park (Korea Advanced Institute of Science and Technology, South Korea)

Technological Systems Large and Small: Physics and Industry in Postwar America

Chair and Organizer: Joseph D. Martin (Michigan State University, USA)
Co-Organizer: Amy Fisher (University of Puget Sound, USA)
Sponsored by the Physical Sciences Forum

Title: "The Simple and Courageous Course: Industrial Patronage of Basic Research at the University of Chicago, 1945–1951," Joseph D. Martin (Michigan State University, USA)

Title: "Testing Out Tesla: The Role of Myth and Media in Challenging Technological Systems," Pete Schmidt (Arizona State University, USA)

Title: "Selves, Measured, Measuring Nature," Amy E. Slaton (Drexel University, USA)

Title: "Science, Technology, and Industry at the National Synchrotron Light Source," Robert Crease (Stony Brook University, USA)

HSS Distinguished Lecture

Colonial Room (Mezzanine Level)

Paula Findlen, Stanford University, USA

Title: "Galileo's Laughter: Knowledge and Play in the Renaissance"

Introduction by Florence Hsia (University of Wisconsin–Madison, USA)

Shortly after Galileo published his *Dialogue Concerning the Two Chief World Systems* (1632), the controversial Dominican theologian and philosopher Tommaso Campanella wrote to congratulate him for writing a great "philosophical comedy." Galileo famously experimented with many different ways of communicating science to his society, but what was the purpose and meaning of
Galileo’s laughter? This talk explores Galileo’s relationship to the Renaissance idea of “playing seriously” (serio ludere). It discusses play as a Renaissance epistemology, a way of knowing and believing cultivated especially during the sixteenth century by many of the most interesting scientific, philosophical, and theological minds of this era. What were the sources that inspired this approach to knowledge? What were the consequences of playing seriously by the early seventeenth century? Why did Galileo choose to present himself, in the spirit of Democritus, as a laughing philosopher?

HSS Poster Session and Reception

*Grand Ballroom (Mezzanine Level)*

Light hors d’oeuvres and a cash bar. The poster presenters will be with their posters to discuss their work with you.

The Friday evening Reception is sponsored by the UCSF Center for the Humanities and Health Sciences, Dorothy Porter, Director.

Note: Posters will be on display in various locations on the 2nd level from 1:00 – 6:00 pm.

- “Views of Justice in Views of Nature: Mapping Alexander von Humboldt’s Cosmic Law,” Patrick Anthony (Vanderbilt University, USA)
- “Teaching Undergraduates: Scientific Communication and Leonhart Fuchs,” Emily Beck (University of Minnesota, USA)
- “Science in the Theater: A New Way of Examining the History of Science,” Bruce Coughran (Independent Scholar, USA)
- “Are You Sure? How Historical Images Can Shake Up Text-Based Narratives,” Pamela Henson (Smithsonian Institution, USA)
- “How to Disappear 150 Years and Not be Forgotten: Lessons from the Visual Culture of the Royal Botanical Expedition to New Spain (1787-1803),” Diana Heredia (National Autonomous University of Mexico, Mexico)
- “Vernacular Land Surveying: Hybrid Cartography and Metrology in Quebec and Louisiana, 1760-1820,” Julia Lewandoski (University of California, Berkeley, USA)
- “Linnaeus’ Anthropomorpha,” Monica Libell (Lund University, Sweden)
- “The Use of Images in Studying the First Fossil Hominins: The Neandertals,” Paige Madison (Arizona State University, USA)
- “Life and Philosophy Branching: Lamarck’s Evolutionary Legacy,” Ricardo Noguera-Solano, Juan Manuel Rodriguez-Caso, Diana Buzo-Zerzosa, and Rodrigo Bustillo-Ramirez (National Autonomous University of Mexico, Mexico)
- “Television Magic: The Early Wizards of Science Educational Broadcasting,” Ingrid Ockert (Princeton University, USA)
- “Computational Approaches in Understanding Evolutionary Medicine,” Deryc Painter (Arizona State University, USA)
• “Mortal Cells for Sale: Lifespan, Contamination, and Business of Leonard Hayflick’s Cells,” Hyung Wook Park (Nanyang Technological University, Singapore)
• “Selling (Out?) Science with H. G. Wells’ “Things to Come,”” Danielle Picard (Vanderbilt University, USA)
• “Drawing Embryos Together: Images and Observation in Late Nineteenth-Century Cell Lineage Studies,” Beatrice Steinert (Brown University, USA)
• “Early Television as an Aid to Astronomy,” Samantha Thompson (Lowell Observatory, USA)
• “Green Numbers: From Limits to Growth to Sustainability,” Henry Trim (University of California, Santa Barbara, USA)

SUNDAY, NOVEMBER 22, 2015

7:30 AM – 8:45 AM
Committee on Education Meeting
The Oak Room Restaurant (1st Level)

Osiris Editorial Board Meeting
The Oak Room Restaurant (1st Level)

9:00 AM – 11:00 AM
Nominating Committee Meeting
Board Room

9:00 AM – 11:45 AM
Note: Coffee break 10:00 – 10:15 AM
California East and West, Mezzanine Lobby
The Coffee Break is sponsored by Bonhams.

Before the Law: Points of Origin in Encounters between Law & Science
Georgian Room (Mezzanine Level)
Chair and Commentator: Mario Biagioli (University of California, Davis, USA)
Organizer: Mary Mitchell (University of Pennsylvania, USA)
- “Knowing the Body in Law and Science,” Kara Swanson (Northeastern University, USA)
- “The Math in the Machine: Spectrometry at Mobil Oil and the History of Software Patenting, 1961-1972,” Gerardo Con Diaz (Yale University, USA)
- “Whose Bodies Count?: Performing the Legality of Nuclear Testing at the Argonne National Laboratory,” Mary Mitchell (University of Pennsylvania, USA)

From the Example of the Exploratorium towards a History of Interactivity
Elizabethan A
Chair and Commentator: Karen Rader (Virginia Commonwealth University, USA)
Organizer: Arne Schirrmacher (Humboldt University of Berlin, Germany)
- “The Origins of the Exploratorium and the Development of its Interactive Exhibits Paradigm,” Rob Semper (The Exploratorium, San Francisco, USA)
- “Objects in Transit: On the Mobility of Interactives between Science Museums and Science Centers in Europe and Northern America,” Arne Schirrmacher (Humboldt University of Berlin, Germany)
- “Interactivity and Science Fairs in Contemporary America,” Sarah Scripps (University of Wisconsin–Stevens Point, USA)
- “The Next Level of Play: Scientific Research and the Gamification of Techne,” Jean-François Gauvin (Collection of Historical Scientific Instruments, Harvard University, USA)

Heredity Data: Documenting Human Inheritance from the Rise of Eugenics to the Second World War
Elizabethan D
Chair and Commentator: Soraya de Chadarevian (University of California, Los Angeles, USA)
Organizer: Luc Berlivet (The National Center for Scientific Research; L'École des hautes Études en Sciences Sociales, France)
- “Abundant Data, Missing Evidence: The Quest for Hereditary Traits and the Method of the Italian Positivist School,” Angelo Matteo Caglioti (University of California, Berkeley, USA)
- “In Opposition to All My Prepossessions: Data, Ratios, and the Evidence of Medical Mendelism,” Theodore Porter (University of California, Los Angeles, USA)
- “Pooling Data. Corrado Gini’s Field Investigations and the Quest to Weight Heredity Against Environment,” Luc Berlivet (The National Center for Scientific Research; L'École des hautes Études en Sciences Sociales, France)
- “Fishing for Probands. Approaches to Human Heredity in Interwar Germany,” Bernd Gausemeier (Max Planck Institute for the History of Science, Germany)
Historical and Theoretical Approaches to Comparison in the History of Ancient Science

Kent Room

Chair and Commentator: Mark Csikszentmihályi (University of California, Berkeley, USA)
Organizer: Karine Chemla (ERC Project SAW & SPHERE UMR 7219; Paris Diderot University; The National Center for Scientific Research, France)
- “Translating Chinese Concepts into European Models,” Michael Nylan (University of California, Berkeley, USA)
- “Comparative Views of Human Taxonomies,” Lisa Raphals (University of California, Riverside, USA)
- “Comparisons in Early Historiographies of Mathematics in Ancient China,” Karine Chemla (ERC Project SAW & SPHERE UMR 7219; Paris Diderot University; The National Center for Scientific Research, France)
- “History of Mathematics, the Crisis of the European Sciences and the Humboldtian Tradition,” Ivahn Smadja (ERC Project SAW & SPHERE UMR 7219; Paris Diderot University, France)

New Perspectives on the Ether in Early Twentieth-Century Physics and Art

Oxford Room

Chair: Massimiliano Badino (Massachusetts Institute of Technology, USA)
Organizer: Scott Walter (University of Nantes, France)
- “The Many Faces of the Ether in Early Twentieth-Century Physics,” Jaume Navarro (University of the Basque Country, Spain)
- “Italian Futurism and the Ether: Umberto Boccioni’s Elasticity and Unique Forms of Continuity in Space,” Linda Dalrymple Henderson (University of Texas at Austin, USA)
- “Lorentz’s Ether, Poincare’s Amorphous Continuum, and Einstein’s Rejected-Redefined ‘Ether’-Spacetime: Einstein’s Revolutionary Physical Universe in a Revolutionizing Mathematical World,” Connemara Doran (Harvard University, USA)
- “Poincaré on Clocks and Radio Waves in the Ether,” Scott Walter (University of Nantes, France)
- “Mach’s Ether, Einstein’s Ether, and the Debate between Relativists and Their Critics,” Richard Staley (University of Cambridge, UK)

Panaceas, Preparations, Poison, and Proof: Universal Remedies in Early Modern Europe

Yorkshire Room

Chair: Margaret Garber (California State University, Fullerton, USA)
Organizer: Joel Klein (Columbia University, USA)
Saturday, November 21, 9:00 AM – 11:45 AM

- “The Universals and Particulars of Poison in the Sixteenth Century,” Fred Gibbs (University of New Mexico, USA)
- “Poison Antidotes, Panaceas, and Proof in Sixteenth-Century Europe,” Alisha Rankin (Tufts University, USA)
- “The Subtleties of Enterprise: Curiosities, Preparations, and Performances in the Printed Luxuries of Leonhard Thurneysser,” Bruce Moran (University of Nevada, Reno, USA)
- “Rivers Run Potable Gold: Skepticism, Credulity, and the Legacy of Experimental Failure,” Joel Klein (Columbia University, USA)
- “Robert Boyle’s Medical Recipes: Efficacy, Trials, and Experimentation,” Michelle DiMeo (Chemical Heritage Foundation, USA)

The Quest for Universality: National and Transnational Perspectives on Nineteenth-Century Cell and Reproduction Research

*Essex Room*
Chair and Organizer: Florence Vienne (Technische Universität Braunschweig, Germany)

- “‘Give me a cell and I will disclose all forms of the organized world for you’: Raspail’s and Schwann’s Search for a Common Origin of Organic Life,” Florence Vienne (Technische Universität Braunschweig, Germany)
- “Diversity or Unity? The Reception of Mohl’s and Schleiden’s Cell Studies in Italy in the 1830s and 1840s,” Ariane Dröscher (University of Bologna, Italy)
- “Visions of Cells and Sexual Differences in the Works of Claude Bernard and Charles Robin in Republican France,” Marion Thomas (University of Strasbourg, France)
- “Reproducing Science: William B. Carpenter and the British Reception of German Ideas on Generation, 1839-1854,” Lynn K. Nyhart (University of Wisconsin–Madison, USA)

Race Science in the Latin World in the Twentieth Century

*Victorian Room*
Chair: Warwick Anderson (University of Sydney, Australia)
Commentator: Gabriela Soto Laveaga (University of California, Santa Barbara, USA)
Organizer: Sebastián Gil-Riaño (University of Sydney, Australia)

- “Changing Practices of Race Science in Twentieth-Century Mexico,” Vivette García Deister and Carlos López Beltrán (National Autonomous University of Mexico, Mexico)
- “Latinizing Modernization: Neo-Lamarckism and the Human Sciences in the Andean Indian Mission during the 1950s,” Sebastián Gil-Riaño (University of Sydney, Australia)
Saturday, November 21, 9:00 AM – 11:45 AM

- “Religion of Life: Latin Eugenics as Laboratory (Testing Ground?),” Sarah Walsh (University of Sydney, Australia)

**Rationality Unbound: New Perspectives on the Postwar Human and Social Sciences**

*Olympic Room*

Chair and Commentator: Joy Rohde (University of Michigan, USA)
Organizer: Marie Burks (Massachusetts Institute of Technology, USA)

- “Macroeconomics Goes Nuclear: Thomas Schelling and the Rational Mechanics of Nuclear War,” Benjamin Wilson (Max Planck Institute for the History of Science, Germany)
- “Tragic Commons and Rational Actors: Theory and Practice in Common Pool Resource Studies, 1930s-1990s,” Paul Erickson (Wesleyan University, USA)
- “The Truth about Hearts and Minds: Psychology, Development, and Counterinsurgency in the Postwar British Empire,” Erik Linstrum (University of Virginia, USA)
- “Inside the ‘Problem-Solving Workshop’: Defining a New Role for the Social Scientist in International Conflict Resolution,” Marie Burks (Massachusetts Institute of Technology, USA)

**Scientific Workspaces: Reconstruction and Representation**

*Elizabethan C*

Chair and Commentator: William Rankin (Yale University, USA)
Organizer: Megan Shields Formato (Stanford University, USA)

- “The Highlands of this Kingdom’: Antiquities, Fossils, and the Representation (and Reconstruction) of the Field in Eighteenth-Century Britain,” Elizabeth Yale (University of Iowa, USA)
- “Where We Worked: Understanding Place in Historic Industrial Preservation,” David Unger (Public Historian, USA)
- “Engineering Systems of Order in E.L. Mark’s Zoological Laboratory,” Jenna Tonn (Harvard University, USA)
- “The Physicist at Work: Iconography and Practice,” Megan Shields Formato (Stanford University, USA)

**Temporalities of Life**

*Elizabethan B*

Chair and Organizer: Jenna Healey (Yale University, USA)

- “Intergenerationality: Conceptions of Time in Non-Genetic Theories of Intergenerational Inheritance,” Sarah Richardson (Harvard University, USA)
• “‘Distilled Development’ in Yeast: Cellular Differentiation in Evolutionary Time,” Erika Langer (University of California, San Francisco, USA)
• “Geriatric Generation: The Infertility Industry and the Biology of Reproductive Aging,” Jenna Healey (Yale University, USA)

**Touch in Early Modern Science and Medicine**

*Hampton Room*

Chair: Tawrin Baker (University of Pittsburgh, USA)
Organizer: Karin Ekholm (St. John’s College, USA)

- “The Children of Anaxagoras,” Pablo Maurette (University of Chicago, USA)
- “Teaching, Learning, Feeling: Touch and the Public Anatomy Lesson,” Allen Shotwell (Indiana University, USA)
- “Tactile Sensation in Harvey’s Account of Animal Generation,” Karin Ekholm (St. John’s College, USA)
- “The Healing Touch of the Stuart Kings: Debating the Royal Touch during the Restoration, 1660-85,” Stephen Brogan (Independent Scholar, UK)
- “Eighteenth-Century Sensation: Touch, Sensibility and Irritability in Natural History,” Susannah Gibson (Independent Scholar, Ireland)

**Transnational Science and Politics in Modern Asia**

*Sussex Room*

Chair, Commentator, and Organizer: Zuoyue Wang (California State Polytechnic University, Pomona, USA)

- “A British Physicist as Diplomat and Agent: William Band’s Wartime Association with Chinese Communists and Its Impact,” Danian Hu (The City College of the City University of New York, USA)
- “South-South Scientific Exchanges during the Cold War: Chinese Irrigation and Soil Conservancy through Indian Eyes, 1959,” Arunabh Ghosh (Harvard University, USA)
- “East Asian Impacts on the Globalization of Ocean Studies during the Cold War,” Nadin Heé (Free University of Berlin, Max Planck Institute for the History of Science, Germany)
Roundtable: Epigenetics: Its History and Current Issues
*Elizabethan A*
Chair and Organizer: Erik Peterson (University of Alabama, USA)
Commentator: Daniel McKaughan (Boston College, USA)
- “Mapping the History of Epigenetics,” Erik Peterson (University of Alabama, USA)
- “Epigenetics and Development,” Antonine Nicoglou (Laboratory of Excellence: Project “Who Am I?”; Institute for the History and Philosophy of Science and Technique, The National Center for Scientific Research, France)
- “Epigenetics and Inheritance: from Nanney's Epigenetic Control Systems to Today,” Francesca Merlin (Institute for the History and Philosophy of Science and Technique, The National Center for Scientific Research, France)
- “Epigenetics: The Cases of T. H. Huxley and Richard Goldschmidt,” Marsha L. Richmond (Wayne State University, USA)

Roundtable: Histories of Meteorology and Climatology
*Olympic Room*
Chair: Kristine Harper (Florida State University, USA)
Organizer: Angelo Matteo Caglioti (University of California, Berkeley, USA)
- “Scientific Practices, Imperial Goals: The Separation of Italian Climatology and Meteorology,” Angelo Matteo Caglioti (University of California, Berkeley, USA)
- “Drawing the Boundaries of Climate: Zones of Climatic Risk and Land Use Planning in the Great Depression,” James H. Bergman (Lyman Briggs College, Michigan State University, USA)
- “Cutting the Gordian Knot of Meteorology: New Theories, New Technologies, and New Knots,” James Fleming (Colby College, USA)
- “Weather by the Numbers? Yes... Climate? Not ‘til Later,” Kristine Harper (Florida State University, USA)

Graduate and Early Career Caucus Business Meeting and Workshop
*Georgian Room (Mezzanine Level)*
Chair: Bridget Collins (University of Wisconsin–Madison, USA)
Workshop: “What to Know When You Are Ready to Publish (and Some Things You Need to Know Before)"
See p. 12 for more information on the Graduate and Early Career Caucus.
Finance Committee Meeting
Bristol Room

Technology Committee Meeting
Location TBD

Forum for History of Human Science Business Meeting and Distinguished Lecture
Elizabethan C
“Autism: Between Risks and Rights,” Ellen Herman (University of Oregon, USA)
See p. 15 for more information on the Forum for History of Human Science.

Early Science Forum Business Meeting
Yorkshire Room
See p. 14 for more information on the Early Science Forum.

Forum for the History of Science in Asia Business Meeting
Borobudur Restaurant (700 Post St.)
See p. 15 for more information on the Forum for the History of Science in Asia.

Forum for the History of the Chemical Sciences Business Meeting
Elizabethan D
See p. 16 for more information on the Forum for the History of the Chemical Sciences.

Society for Philosophy of Science in Practice (SPSP) Informational Session
Oxford Room
The Society for Philosophy of Science in Practice (SPSP) was founded in 2007 by an international group of philosophers/historians of science, and seeks to provide a forum for presentation and discussion for work that uses an approach to philosophy based on scientific practice which takes into consideration theory, practice, and the world simultaneously, largely through biennial international conferences. Philosophy of science has traditionally focused on the relation between scientific theories and the world, at the risk of disregarding scientific practice. Although this approach has merits, we believe it can result in the neglect of some essential aspects of science. Accordingly we invite historians of science, medicine, and technology attending HSS who have interests in epistemological, ethical, or other philosophical issues relating to the practice of science to join us for this informational session and discussion as we are eager to involve more historians in our organization.
For more information, please visit http://www.philosophy-science-practice.org/en/events/fifth-biennial-spsp-aarhus-2015/ or email Rachel Ankeny at rachel.ankeny@adelaide.edu.au.
Roundtable: Asilomar at 40: History and Memory

Oxford Room

Chair, Commentator, and Co-Organizer: Robin Scheffler (Massachusetts Institute of Technology, USA)
Co-Organizer: Luis Campos (University of New Mexico, USA)

- “The Political Design and Legacy of the 1975 Asilomar Conference,” Susan Wright (University of California, Santa Cruz; University of Michigan, USA)
- “Synthetic Biology and the Ghost of Asilomar,” Luis Campos (University of New Mexico, USA)
- “The Missed Opportunities of Asilomar and the Implications for Regulating Controversial Technologies,” Shobita Parthasarathy (University of Michigan, USA)
- “Asilomar for Genome Editing? Regulation in the Age of Global Science,” Doogab Yi (Seoul National University, South Korea)

Roundtable: Collecting the History of Science: The Trade in Rare Books, Manuscripts, and Historical Objects

Yorkshire Room

Chair, Commentator, and Organizer: Cassandra Hatton (Bonhams Auctioneers, USA)

Participants:
- Cassandra Hatton (Bonhams Auctioneers, USA)
- Christian Westergaard (Sophia Rare Books, Denmark)
- David Rips (Younger Optics, USA)
- Kristen Gallerneaux (The Henry Ford, USA)
- Dan Lewis (Huntington Library, USA)

Roundtable: Darwinian Loose Ends: Evolution, Narrative, and Maladaptation

Elizabethan C

Chair: Staffan Müller-Wille (University of Exeter, UK)
Commentator: Michael Ruse (Florida State University, USA)
Organizer: Will Abberley (University of Sussex, UK)

- “On the Role of Vanity and Death in Darwinian Evolution,” Staffan Müller-Wille (University of Exeter, UK)
- “Spanish Literature and the Conscience of Sexual Selection,” Travis Landry (Kenyon College, USA)
- “The Invention of Empathy: Darwin, Aesthetics, and the Problem of Others,” Richard Kaye (Hunter College, USA)
“Darwinian Mimicry, Maladaptation and Narrative Uncertainty,” Will Abberley (University of Sussex, UK)

“On the other hand ...” Darwin’s Vacillations on Human Selection,” Diane Paul (University of Massachusetts Boston, USA)

Roundtable: Gender in History of Science Pedagogy

Chair: Karen Rader (Virginia Commonwealth University, USA)
Organizer: Xan Chacko (University of California, Davis, USA)

Participants:
- Maura Flannery (St. John’s University, USA)
- Tina Gianquitto (Colorado School of Mines, USA)
- Bridget Gurtler (Bryn Mawr College, USA)
- Erika Milam (Princeton University, USA)
- Donald Opitz (DePaul University, USA)
- Sarah Richardson (Harvard University, USA)
- Debbie Weinstein (Brown University, USA)

Roundtable: How Should the History of Science Engage with Political Activism and Social Justice?

Chair: Joanna Radin (Yale University, USA) and Myrna Perez Sheldon (Rice University, USA)
Commentator: Jenny Reardon (University of California, Santa Cruz, USA)

- “Beyond the Charge of Pseudoscience: New Directions for the Study of Race and the History of Science,” Terence Keel (University of California, Santa Barbara, USA)
- “History, Science, and the Politics of Return,” Joanna Radin (Yale University, USA)
- “The Epistemic Character and Political Use of Science in the United States,” Myrna Perez Sheldon (Rice University, USA)
- “Social Unrest and the Power of ‘Science’ in 1960s Mexico,” Gabriela Soto Laveaga (University of California, Santa Barbara, USA)

Roundtable: Ideas of Environment

Chair: Rebecca Woods (Columbia University, USA)
Commentator: Etienne Benson (University of Pennsylvania, USA)
Organizer: Isabel Gabel (University of Chicago, USA)

- “Scaling the Environment,” Fredrik Jonsson (University of Chicago, USA)
• “French Geography and a Humanist Articulation of Environment until Braudel’s La Méditerranée,” Sverker Sörlin (Royal Institute of Technology, Sweden)
• “Animal Environments and the Philosophy of History in France,” Isabel Gabel (University of Chicago, USA)
• “Imperial Environments: Between Physical and Figurative,” Rebecca Woods (Columbia University, USA)

Roundtable: (In)visible Labor in the Human Sciences
*Olympic Room*
Chair: Susan Lindee (University of Pennsylvania, USA)
Organizer: Judith Kaplan and Jenny Bangham (Max Planck Institute for the History of Science, Germany)
Commentator: Susan Lindee (University of Pennsylvania, USA)
• “Anonymity,” Jenny Bangham (Max Planck Institute for the History of Science, Germany)
• “Ventriloquism,” Sarah Blacker (University of Alberta, Canada; Max Planck Institute for the History of Science, Germany)
• “Blanks,” Dan Bouk (Colgate University, USA)
• “Inscription,” Judith Kaplan (Max Planck Institute for the History of Science, Germany)
• “Bureaucracy,” Laura Stark (Vanderbilt University, USA)

Roundtable: The New Historiography of Science, Technology, and Intellectual Property Law
*Georgian Room (Mezzanine Level)*
Chair and Commentator: Daniel Kevles (Yale University, USA)
Organizer: Gerardo Con Diaz (Yale University, USA)
• “The Possibilities and Responsibilities of Historians of IP,” Kara Swanson (Northeastern University, USA)
• “Intellectual Property, Litigation, and Regulation in Early Biotech,” Nicolas Rasmussen (University of New South Wales, Australia)
• “The Many Natures of Software as an Intellectual Property,” Gerardo Con Diaz (Yale University, USA)
• “Intellectual Property as Technology,” Mario Biagioli (University of California, Davis, USA)

Roundtable: Spatial Histories of Science
*Essex Room*
Chair and Organizer: William Rankin (Yale University, USA)
Commentator: Carla Yanni (Rutgers University, USA)
Saturday, November 21, 1:30 PM – 3:30 PM

- “Visualizing Time, Travel, and Publication in the History of Expeditionary Research, 1830–1930,” Alistair Sponsel (Vanderbilt University, USA)
- “Towards a History of Scaling,” Deborah Coen (Barnard College Columbia University, USA)
- “Environmental Knowing and the Making of Social Justice in Architectural Space,” Aimi Hamraie (Vanderbilt University, USA)
- “Spatial History and Geographic Knowledge,” William Rankin (Yale University, USA)

Roundtable: Translation as Process: Border-Crossing Knowledge, Materialities, and Concepts in the History of Science in Asia (and Beyond)

Elizabeth B
Chair and Co-Organizer together with the Forum for the History of Science in Asia: Martina Siebert (Max Planck Institute for the History of Science, Germany)
Sponsored by the Forum for the History of Science in Asia

- “Translation, Pictorialisation, and the Practice of Medicine in Nineteenth-Century Owari, Japan,” Maki Fukuoka (University of Leeds, UK)
- “The Uses and Limitations of Translation Studies for Histories of Knowledge in Motion,” Joachim Kurtz (Karl Jespers Center for Advanced Transcultural Studies, Heidelberg University, Germany)
- “Vernacularizing Translation: Power, Affect and the Aesthetics of Sound,” Projit Mukharji (University of Pennsylvania, USA)
- “Improving by Translating? The Multilingual and Multiple Afterlives of Ludwik Fleck’s ‘Genesis and Development of a Scientific Fact,’” Martina Schlünder (University of Toronto, Canada; Max Planck Institute for the History of Science, Germany)

Roundtable: Why Should We Care about the History of the IAEA? Negotiating Science in a Techno-Political International Organization

Hampton Room
Chair and Commentator: John Krige (Georgia Institute of Technology, USA)
Organizer: Maria Rentetzi (University of Vienna, Austria; National Technical University of Athens, Greece)

- “Beyond the Nuclear Watchdog: Survival Strategies at the International Atomic Energy Agency,” Jacob Hamblin (Oregon State University, USA)
- “Countries worthy of attention: the IAEA’s Technical Assistance Programs in Latin America (1955-1970),” Gisela Mateos and Edna Suárez Diá (National Autonomous University of Mexico, Mexico)
- “The International Atomic Energy Agency and the Development of International Political Authority,” Robert Brown (Temple University, USA)
“Getting the Radiation Dose Correct: The Politics of Radiation Dosimetry and the Role of the IAEA,” Maria Rentetzi (University of Vienna, Austria; National Technical University of Athens, Greece)

Roundtable: Writing Histories of Data

Elizabeth D
Chair and Organizer: David Sepkoski (Max Planck Institute for the History of Science, Germany)
- “Data, Materiality, History,” Matthew Jones (Columbia University, USA)
- “Encoding and Intervening,” Stephanie Dick (Harvard University, USA)
- “Scaffolding the Data,” Wangui Muigai (Princeton University, USA)
- “What Difference Did Computers Make to the History of Data?” David Sepkoski (Max Planck Institute for the History of Science, Germany)
- “The Great Data Divergence,” Jessica Ratcliff (Yale-NUS College, Singapore)
- “Data Fantasies,” Hallam Stevens (Nanyang Technological University, Singapore)

3:30 PM – 3:45 PM

Coffee Break
California East and West, Mezzanine Lobby
The Coffee Break is sponsored by David Kaiser, MIT Germeshausen Chair funds.

3:45 PM – 5:45 PM

After Ypres: The Integration of Science into War, Part I: Chemistry and Chemists through War

Oxford Room
Chair: Brigitte Van Tiggelen (Chemical Heritage Foundation, USA; Université catholique de Louvain, Louvain-la-neuve, Belgium)
Organizer: Yoshiyuki Kikuchi (Graduate University for Advanced Studies, Japan)
Co-Sponsored by the Commission on the History of Modern Chemistry and the Forum for the History of the Chemical Sciences
- “U.S. Chemical Warfare in World War I: The Gas Networks,” Kathryn Steen (Drexel University, USA)
- “Auguste Trillat and the Foundations of the French Biological and Chemical Weapons Program,” Etienne Aucouturier (University of Ghana and French Ministry of Foreign Affairs, Ghana)
- “A Man of Peace in Times of War: Harold C. Urey, Pacifism, and National Service in the Two World Wars,” Matthew Shindell (Harvard University, USA)
“On the Social Responsibility of the Scientist in Wartime: Should Fritz Haber Have Been Tried as a War Criminal?” Jeffrey Johnson (Villanova University, USA)

Collecting Science: Antiquities and *Materia Medica* in 18th and 19th-Century Mexico
*Victorian Room*
Chair and Organizer: Paula De Vos (San Diego State University, USA)
Commentator: Violeta Arechiga (Metropolitan Autonomous University Mexico City, Mexico)
- “Nahua *Materia Medica* and the Formation of Patriotic Pharmacopeia in Colonial and Early National Mexico,” Paula De Vos (San Diego State University, USA)
- “Writing Lessons in the History of Antiquarianism: Mexico City, ca. 1800s,” Miruna Achim (Metropolitan Autonomous University Cuajimalpa, Mexico)
- “Medical Recipes Written in Spanish Using Maya Pharmacopoeia, in Eighteenth-Century Yucatán, México,” Laura Caso-Barrera (Graduate School in Agricultural Science, Puebla Campus, Mexico)

Exploring Human/Animal and Biological/Social Boundaries in Twentieth-Century Science
*Olympic Room*
Chair and Commentator: Lloyd Ackert (Drexel University, USA)
Organizer: Eric Johnson (University of British Columbia, Canada)
- “Darwin’s Russian Defender: Peter Kropotkin’s Struggle Against Neo-Darwinism and Eugenics,” Eric Johnson (University of British Columbia, Canada)

Imagining Science and Technology in the Shadow of the Cold War
*Georgian Room (Mezzanine Level)*
Chair and Commentator: Babak Ashrafi (Consortium for History of Science, Technology and Medicine, USA)
Organizer: Greg Eghigian (Pennsylvania State University, USA)
- “The Cold War and the Making of the Flying Saucer Era,” Greg Eghigian (Pennsylvania State University, USA)
- “Projecting the Best of American Science Abroad During the ‘Crisis of Confidence’: U.S. Science-Themed Propaganda Films in the 1970s,” Teasel Muir-Harmony (American Institute of Physics, USA)
• “Space Stations on a Changing Frontier: Race, Gender, and Space Science Fiction,” Margaret A. Weitekamp (Smithsonian Institution, National Air and Space Museum, USA)

The Marginalization of Astrology in Early Modern Science
Yorkshire Room
Chair: Hiro Hirai (Radboud University Nijmegen, Netherlands)
Organizer: Rienk Vermij (University of Oklahoma, USA)
• “Removing Astrology from the University of Valencia: The Spanish Novatores and the Decline of the Discipline in Spain at the End of the Seventeenth Century,” Tayra Lanuza-Navarro (Huntington Library, USA)
• “The Marginalization of Astrology in the Early-Modern Discourse on Causation and Meaning of Comets,” Anna Jerratsch (Max Planck Institute for the History of Science, Germany)
• “The Role of Astrological Knowledge in the Seventeenth-Century Dutch Republic,” Rienk Vermij (University of Oklahoma, USA)
• “The Mechanical Resilience of Astrology,” Aaron Spink (University of South Florida, USA)

Pathologies of Perception: Nostalgia, Distraction and Other Elasticities of Time and Space, 1688 to the Present
Elizabethan B
Chair and Commentator: Shigehisa Kuriyama (Harvard University, USA)
Organizer: Lily Huang (University of Chicago, USA)
• “The Deadly Time of Nostalgia in Early-Modern Europe,” Thomas Dodman (Boston College, USA)
• “The Master of Distraction: Bergson, Janet, & Two Versions of the Modern Self,” Lily Huang (University of Chicago, USA)
• “An Optic for All Time: Film, Science, and Evangelism in the Atomic Age,” Caitjan Gainty (King’s College London, UK)

Prisca Scientia: Paradoxes of Progress in History and the Sciences, 1500-1800
Elizabethan A
Chair and Organizer: Alexander Statman (Stanford University, USA)
• “The Tarot of Yu the Great: Enlightenment Theories of Civilization’s Oriental Origins,” Alexander Statman (Stanford University, USA)
• “Progress or Return? Leibniz and Newton Historicize the Calculus,” Abram Kaplan (Columbia University, USA)
• “Languages, Knowledge, and the History of a New World from Afar, 1492-1650,” Valeria Lopez Fadul (University of Chicago, USA)
• “Humanist Historia Literaria and the Contested Historicity of Antiquity’s Distant Past,” Frederic Clark (New York University, USA)
Re-Periodizing the History of Mathematics

Elizabethan D
Chair: Massimo Mazzotti (University of California, Berkeley, USA)
Organizer: Michael J. Barany (Princeton University, USA)
Sponsored by the Forum for the History of the Mathematical Sciences
- “Triumph and Forgetfulness: The Historiography of Ancient Mathematics,” Jean De Groot (The Catholic University of America, USA)
- “The Purification of Mathematics and its Consequences,” Gerard Alberts (University of Amsterdam, Netherlands)
- “Anticipation, Collection, Review, and the Hybrid Time of Modern Mathematics,” Michael J. Barany (Princeton University, USA)
- “Towards a Cyborg History of Mathematics,” Kevin Lambert (California State University, Fullerton, USA)

Science and Environmental Authority in the Arctic

Kent Room
Chair and Commentator: Simone Turchetti (University of Manchester, UK)
Organizer: Peder Roberts (KTH Royal Institute of Technology, Sweden)
- “Studying Fish While Naturalizing Markets? Debates over Far North Atlantic Fisheries Development in the Early Twentieth Century,” Janina Priebe (Umeå University, Sweden)
- “Science and Environmental Authority on Interwar Svalbard,” Peder Roberts (KTH Royal Institute of Technology, Sweden)
- “Science and Danish Authority in Greenland Over a Century of Change,” Janet Martin-Nielsen and Matthias Heymann (University of Aarhus, Denmark)

The Sciences of Taste

Elizabethan C
Chair and Organizer: Christopher Phillips (Carnegie Mellon University, USA)
- “Chemistry and Connoisseurship in the Twentieth-Century Wine-World,” Steven Shapin (Harvard University, USA)
- “Maynard Amerine, Sensory Judgments, and the Statistical Measure of Expertise,” Christopher Phillips (Carnegie Mellon University, USA)
- “Taken with a Grain of NaCl: Molecular Gastronomy and the Biochemistry of Cuisine,” Sophia Roosth (Harvard University, USA)
Thinking Small in the Early Modern Period/Cultures and Communities

Hampton Room
* This session is composed of two distinct mini-sessions that resulted from the withdrawals of other participants. The first two papers are from an organized session, the latter two were contributed papers. The HSS thanks the participants for agreeing to merge the sessions.

Chair: Mi Gyung Kim (North Carolina State University, USA)
Organizer: Rodolfo Garau (Max Planck Institute for the History of Science, Germany)
- “Epistemological Subtleties. How the Reference to the Extremely Small Could Count as an Explanation in Early Modern Natural Philosophy,” Rodolfo Garau (Max Planck Institute for the History of Science, Germany)
- “The Continuous, the Infinitesimal, and Elasticity: Leibniz’s ‘Kinematics’ of Collision,” Tzuchien Tho (University of Bucharest, Romania)
- “Engineering Knowledge, Engineering Practice, and German Idealism in the Industrial Age,” Adelheid Voskuhl (University of Pennsylvania, USA)
- “A Comparative Social Morphology of Scientific Judgment in Theoretical Physics,” Thomas Krendl Gilbert (University of California, Berkeley, USA) and Andrew Loveridge (University of Wisconsin–Madison, USA)

Why and How Logic Matters for Medicine

Essex Room
Chair: Volker Hess (Charité University Medicine Berlin, Germany)
Organizer: Katja Krause (Max Planck Institute for the History of Science, Germany)
- “Galenic and Alexandrian Approaches to Medicine: A History of Opposition and Harmony,” Luca Gili (KU Leuven, Belgium)
- “Albert the Great on the Discipline of Medicine: Why Every Physician Ought to Be a Philosopher First,” Katja Krause (Max Planck Institute for the History of Science, Germany)
- “Johan Baptista van Helmont: His Rejection of Aristotelian Logic and Galenic Medicine,” Sietske Fransen (University of Cambridge, UK; Max Planck Institute for the History of Science, Germany)
- “George Murray Humphry and the Logic of Collective Investigation, 1880-1900,” Alexander Moffett (University of Chicago, USA)

HSS Prize Ceremony

Colonial Room (Mezzanine Level)
Film Presentation: Merchants of Doubt

Colonial Room (Mezzanine Level)

Supported by the Elizabeth Paris Fund for Socially Engaged History and Philosophy of Science.

The film is based on the Davis Prize-winning book by HSS members Erik M. Conway and Naomi Oreskes. Dr. Conway will be joining us for the screening and Q&A session to follow.

The event is free, but attendees are asked to register for a ticket. Please visit hssonline.org/mod for more information.

SUNDAY, NOVEMBER 22, 2015

HSS Business Meeting

St. Francis Suite – East Room (12th Level)

All members are welcome to attend. Light breakfast will be served.

See p. 66 for the agenda.

After Ypres: The Integration of Science into War, Part II: Reactions to the Integration of Science into War

Elizabethan D

Chair: Brigitte Van Tiggelen (Chemical Heritage Foundation, USA; Université catholique de Louvain, Louvain-la-neuve, Belgium)

Commentator: Michael Gordin (Princeton University, USA)

Organizer: Yoshiyuki Kikuchi (Graduate University for Advanced Studies, Japan)

Co-Sponsored by the Commission on the History of Modern Chemistry and the Forum for the History of the Chemical Sciences

- “In Fear of Science: Lay and Diplomatic Doubt about the Geneva Gas Protocol and Efforts to Ban Gas Effectively in the Interwar and World War II,” Molly Girard Dorsey (University of New Hampshire, USA)
• “Blowing Gas across Discourses about Science in 1920s Britain,” Robert Bud (Science Museum, London, UK)
• “The Rabbits of Okunoshima: Public Memory and the Legacies of Chemical Warfare in Japan,” Walter Grunden (Bowling Green State University, USA)

Blood and Bones, Spaces and Traces: Crime Scenes, Laboratories and Modern Forensic Cultures

Elizabethan B
Chair and Commentator: Thomas Laqueur (University of California, Berkeley, USA)
Organizer: Neil Pemberton (University of Manchester, UK)
• “Reading the Blood: Paul Kirk and the Performance of Blood Spatter Analysis in Modern American Forensic Cultures,” Neil Pemberton (University of Manchester, UK)
• “The House of Murder: The Christie Investigation and the Emergence of the Forensic ‘Team’ in Postwar England,” Ian Burney (University of Manchester, UK)
• “What Bones Won’t Tell: Linking Skeletal Maturity to Moral Responsibility in Criminal Trials in the British Empire,” Binyamin Blum (Hebrew University of Jerusalem, Israel)

The Complex Genealogies of Race: Genetics and Anthropology in the Post-World War II United States

Olympic Room
Chair and Commentator: Keith Wailoo (Princeton University, USA)
Organizer: Arleen Tuchman (Vanderbilt University, USA)
• “The Genealogy of the Concept ‘Tri-Racial,’” Michell Chresfield (Vanderbilt University, USA)
• “The Racialized Genealogy of the ‘Gay Gene,’” Alexandra Stern (University of Michigan, USA)
• “The Racialized Genealogy of the Thrifty Gene Hypothesis,” Arleen Tuchman (Vanderbilt University, USA)

Controlling Science in Print: Case Studies from the Early Modern World

Georgian Room (Mezzanine Level)
Chair and Commentator: Adrian Johns (University of Chicago, USA)
Organizer: Hannah Marcus (Stanford University, USA)
• “Prohibited Science and Licensed Readers in Counter-Reformation Italy,” Hannah Marcus (Stanford University, USA)
• “A Book Nobody Read? Cellarius’s Copernican Atlas in Seventeenth-Century Rome,” Daniel Stolzenberg (University of California, Davis, USA)
• “‘An Extremely Rare Book’: Print Culture, Tropical Drugs, and Vernacular Knowledge in the Portuguese Empire,” Benjamin Breen (Columbia Society of Fellows, USA)

**Expertise in the Age of Enlightenment**

_Elizabethan A_

Chair and Commentator: Andre Wakefield (Pitzer College, USA)
Organizer: Meghan Roberts (Bowdoin College, USA)

• “Fieldwork and Fieldworkers: Labor and Expertise in the Enlightened Earth Sciences,” Lydia Barnett (Northwestern University, USA)

• “Spontaneous Human Combustion, Criminal Trials, and Medical Expertise in Enlightenment France,” Meghan Roberts (Bowdoin College, USA)

• “Expertise, Amateurism, and Scientific Sociability in Post-Revolutionary France,” Dena Goodman (University of Michigan, USA)

**Historiography of Cultural Diversity in the History of Science**

_Victorian Room - ** Please note that this session will be starting at 9:30 AM._

Chair and Organizer: Kenji Ito (Graduate University for Advanced Studies, Japan)

• “Dealing with Cultural Diversity in the History of Mathematics: The Case of Moritz Cantor,” Martina Schneider (ERC Project SAW & SPHERE UMR 7219; Paris Diderot University; The National Center for Scientific Research, France; Johannes Gutenberg University of Mainz, Germany)

• “Civilizations and Diversity: Explorations in the Historiography of Sanskrit Mathematical Tradition (1900-1950),” Dhruv Raina (Jawaharlal Nehru University, India)

• “Yukawa Hideki and Self-Orientalism,” Kenji Ito (Graduate University for Advanced Studies, Japan)

• “Reclaiming Diversity: The Paradoxes of ‘Vedic Mathematics,’” Agathe Keller (ERC Project SAW & SPHERE UMR 7219; Paris Diderot University; The National Center for Scientific Research, France)

**Multiplying Histories of the Psychoactive Technosciences**

_Oxford Room_

Chair: David Herzberg (University at Buffalo, USA)
Commentator: Caroline Jean Aeker (Carnegie Mellon University, USA)
Organizer: Nancy Campbell (Rensselaer Polytechnic Institute, USA)

• “The Science and Politics of Opiate Overdose: Narcotic Antagonism as Conceptual Technology,” Nancy Campbell (Rensselaer Polytechnic Institute, USA)

• “Treating or Disarming Nicotine Addiction: The Multiple Worlds of Nicotine Replacement from Nicorette Gum to the E-cigarette,” Mark Elam (University of Gothenburg, Sweden)
- “The Medicalized Drug War: Physicians and Pharmacists in the Punitve Era of Drug Control,” David Herzberg (University at Buffalo, USA)

**Producing Knowledge, Promoting Products: Advertising, Commercial Communication, and the Practical Sciences in Comparative Global Perspective, 1750-1950**

*Elizabeth C*

Chair and Commentator: Jeremy Vetter (University of Arizona, USA)
Organizer: Denise Phillips (University of Tennessee, USA)

- “Making Silk into Sense and Cents: Japanese Silk and the Search for Standards in the United States,” Lisa Onaga (Nanyang Technological University, Singapore)
- “The Science of Selling: Animal Agriculture and Its Products in the United States,” Brendan Matz (New York University, USA)
- “Advertising and Enlightenment: Commercial Communication and the Practical Sciences in Eighteenth-Century and Early Nineteenth-Century Germany,” Denise Phillips (University of Tennessee, USA)

**Science and the State: Public Policy, Promotion, and State Support for Science in the Twentieth Century**

*Essex Room*

Chair: James Fleming (Colby College, USA)
Organizer: Neasa McGarrigle (Trinity College Dublin, Ireland)

- “China’s Model for the Developing World: Western Scientists Endorsed Chairman Mao’s Socialist Science?” Darryl Brock (Central Connecticut State University, USA)
- “Recreating the Land of Scholars: Erwin Schrödinger and the Dublin Institute for Advanced Studies,” Neasa McGarrigle (Trinity College Dublin, Ireland)
- “De-Mobbing British Oceanography: The Politics and Networks behind the Founding of the National Institute of Oceanography,” Samuel Robinson (University of Manchester, UK)
- “Collapse of State and Science: Soviet Marine Science before and after 1991,” Gregory Ferguson-Cradler (Princeton University, USA)

**Sociability and Intellectual Exchange in the Early Modern Ottoman Empire**

*Yorkshire Room*

Chair: Paula Findlen (Stanford University, USA)
Commentator: Ahmed Ragab (Harvard University, USA)
Organizer: Valentina Pugliano (University of Cambridge, UK)

- “Do Try This at Home: Astronomy in the Ottoman Salon,” Helen Pfeifer (University of Cambridge, UK)
“Cure, Talk, Eat, Listen: The Life of Diplomatic Physicians in the Venetian Fondaci in the Ottoman Empire,” Valentina Pugliano (University of Cambridge, UK)

“Hummus on Hot Iron: The Space and Place of Manuscript Pamphlets in the Medico-Legal Debates of the Seventeenth-Century Ottoman Empire,” Nir Shafir (University of California, Los Angeles, USA)

The Uses of Science and Medicine in Nineteenth and Twentieth-Century Latin America

Hampton Room

Chair and Organizer: Patience Schell (University of Aberdeen, UK)

“Mapping Out Gran Colombia’s Place in an American Hemisphere,” Lina Del Castillo (University of Texas at Austin, USA)

“James Trail: The Amazon’s Forgotten Naturalist,” Patience Schell (University of Aberdeen, UK)

“From Notional Parks to National Places: Field Science and Nature Protection in Patagonia,” Emily Wakild (Boise State University, USA)

Plan now for future HSS Meetings:

2016 3-Societies Meeting, June 22 – 25
Calgary, Alberta – Joint meeting with the Canadian Society for the History and Philosophy of Science and the British Society for the History of Science

2016 HSS Meeting, November 3 – 6
Atlanta, Georgia – Joint meeting with the Philosophy of Science Association and the Society for Literature, Science and the Arts

2017 HSS Meeting, November 9 – 12
Toronto, Ontario

2018 HSS Meeting, November 1 – 4
Seattle, Washington – Joint meeting with the Philosophy of Science Association
HSS 2015 Business Meeting Agenda
Sunday, November 22, 2015, 7:45 – 8:45 AM
St. Francis Suite – East Room (12th Level)

All HSS members are welcome. Refreshments will be served.

Materials for the HSS Business Meeting, including the 2014 Business Meeting minutes, committee reports, and revised bylaws, are available online at www.hssonline.org. Go to the Business Meeting section on the 2015 Meeting page.

President’s Welcome
Angela Creager

Approval of Minutes

Executive Director’s Report
Jay Malone

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H. Floris Cohen

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Adam Apt

Committee Reports
Synopsis by Jay Malone

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