History of Science Society

ANNUAL MEETING

23-27 JULY 2019

UTRECHT, THE NETHERLANDS

Cover | Canal in central Utrecht, viewed from the Dom Tower
Photo by DAVID ILIFF. License: CC BY-SA 3.0
Table of Contents

Acknowledgments 3
HSS Officers and Committee Chairs 5
Utrecht 6
History of Science Society Volunteers 10
Respectful Behavior Policy 12
Statement on Scholarly Conduct 14
HSS Caucuses and Interest Groups 15
Book Exhibit 20
General Meeting Information 21
2019 Meeting Program 22
  Tuesday, 23 July 2019 22
  Wednesday, 24 July 2019 23
  Thursday, 25 July 2019 38
  Friday, 26 July 2019 55
  Saturday, 27 July 2019 70
Advertisements 76
Index 84

HISTORY OF SCIENCE SOCIETY MISSION STATEMENT

To foster interest in the history of science, promote discussion of science’s social and cultural relations, and bring this understanding to others worldwide.
Acknowledgments

Welcome to Utrecht! This is the HSS’s first meeting outside of North America, and represents a tentative step in affirming that the Society is an international body. Sister societies such as SHOT and 4S regularly meet outside the confines of North America and that they are able to do so is due to strong local support. The local arrangements group for Utrecht was vital to the 2019 HSS conference, and I am grateful to our hosts, especially the Descartes Center, for their help. The conference simply would not have happened without their assistance.

Our program co-chairs, Christine von Oertzen (Max Planck Institute for the History of Science) and Simon Werrett (University College London) dedicated untold hours to the 2019 program, trying to coordinate the more than 350 presentations for the conference. Only former program chairs know the challenges that reside in assembling the annual meeting. Simply trying to accommodate requests that range from favored presentation times to the choice of commentator can test the coolest temper. They have my deep thanks for their efforts. I am also grateful to Karen-Beth Scholthof (Texas A&M University), who chairs the Committee on Meetings and Programs. She and they have provided valuable guidance, and I am grateful for their leadership.

Our Local Arrangements Committee, chaired by David Baneke (Utrecht University), boldly handled the 1000s of details that each conference demands, and this meeting had more demands than usual. His main helpers were Ariane den Daas and Annemarijn Douwes who were simply marvelous, as was our meeting manager, Odette Jansen. They were joined by the dozens of volunteers, mostly students, who will try to make sure that delegates receive proper care.

The annual meeting would look more like a mystifying opera while a fire raged backstage without the efforts of Ryan Feigenbaum, our Society Coordinator and digital master. Ryan handled every step, from tweaking our conference-management system (in its second year), to fielding hundreds of requests for help, to posting helpful updates, to closing the books on our fiscal year, which has nothing to do with the conference but is just as important. Please give him a hearty thanks when you see him.

A conference outside of our usual North American confines offers financial challenges, and we rely heavily on sponsors and supporters to help us control expenses. 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-1656205), and Utrecht University’s Descartes Center. When I first started seeing the prospective costs for the meeting I began to panic, but Bert Theunissen, Director of the Descartes Center, said the expenses would not be a problem, and he has been true to his word. In the near or
distant future, when you remember HSS in Utrecht, please also remember that the Descartes Center was central to any fond memory. There are many others who helped us, and a full list of supporters can be found on the back cover of the program. I appreciate, beyond words, their contributions.

And on the subject of beyond words, the HSS Executive Committee provided understanding, encouragement, and wisdom on all aspects of the meeting. These officers dedicate hundreds of hours to the HSS— they too, have my profound thanks.

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
5 July 2019
## HSS Officers and Committee Chairs

### Council

**Executive Committee**

- **President,** Bernard Lightman, York University
- **Vice President,** Jan Golinski, University of New Hampshire
- **Secretary,** Luis Campos, University of New Mexico
- **Treasurer,** Gwen Kay, State University of New York, Oswego
- **Council Delegate,** Ahmed Ragab, Harvard University
- **Editor,** Alexandra Hui (Mississippi State University, *ex officio*)
- **Executive Director,** Robert J. Malone, HSS (*ex officio*)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Susan Jones</td>
<td>Stephanie Dick</td>
<td>Paola Bertucci</td>
</tr>
<tr>
<td>Gordon McOuat</td>
<td>Sven Dupré</td>
<td>Nathaniel Comfort</td>
</tr>
<tr>
<td>Erika Milam</td>
<td>Julia Kursell</td>
<td>Olival Freire</td>
</tr>
<tr>
<td>Suman Seth</td>
<td>Ahmed Ragab</td>
<td>Jacob Darwin Hamblin</td>
</tr>
<tr>
<td>Gabriela Soto Laveaga</td>
<td>Neil Safier</td>
<td>Elly Truitt</td>
</tr>
</tbody>
</table>

Past President (2018-2019), Janet Browne, Harvard University

### Committee Chairs

- **Advocacy,** Marc Rothenberg
- **Diversity and Inclusion,** Myrna Perez Sheldon, Harvard University (*co-chair*)
- **Diversity and Inclusion,** Don Opitz, DePaul University (*co-chair*)
- **Education and Engagement,** Lloyd Ackert, Drexel University
- **Finances,** Gwen Kay, State University of New York, Oswego
- **Honors and Prizes,** David Kaiser, Massachusetts Institute of Technology
- **Meetings and Programs,** Karen-Beth G. Scholthof, Texas A&M University
- **Membership,** Erika L. Milam, Princeton University
- **Nominating,** Elena Aronova, UC Santa Barbara
- **Respectful Behavior,** Don Opitz, DePaul University
- **Publications,** Matt Jones, Columbia University
- **Technology and Communications,** Kathleen Sheppard, Missouri S&T
Utrecht

Program Co-Chairs
Christine von Oertzen, Max Planck Institute
Simon Werrett, University College London

Local Arrangements Chair
David Baneke, Utrecht University

Local Arrangements Committee
The local hosts of the 2019 Annual Meeting are:

• Bert Theunissen
• David Baneke
• Ariane den Daas
• Odette Jansen
• Annemarijn Douwes

They are supported by a group of HPS students and graduates.

TRAFFIC & SAFETY IN UtreCHT

Emergency Number: 112

The center of Utrecht is very safe. There may be pickpockets, like in any busy place, but it is no problem to walk around alone at any time of day or night. The main safety hazard is also one of Utrecht’s most celebrated features: its bike culture. The conference website can tell you how to get from A to B, but it does not inform you about the laws of the Utrecht traffic jungle. So here they are:

1. In all of Utrecht, bikes are king of the road.
2. It takes a large bus or truck to intimidate a bike. Anything & anyone else is expected to give way. This even includes HSS participants.
3. Bikes don’t follow rules. Mundane things such as traffic lights, one-way streets or pedestrian zones are regarded as optional guidelines.
4. Bike parking is allowed everywhere, even where it is not (cf. rule 3). The only exception is the Drift canal, where parked bikes will be actively removed by the officials.
5. Stealing bikes is not allowed, but bike thieves also seem to adhere to rule 3. It is not unusual to have a bike lock that is more expensive than your bike (this also says something about the quality of most
bikes). Incidentally, the largest bike parking garage in the world is being built near the station, with room for 12,500 bikes. Another one, with room for 4,200 bikes, is located on the other side of the station. It is not clear whether or not this will be enough space.

– David Baneke

A NOTE ON UTRECHT

When the Society first started planning a conference outside of North America, back in 2013, we naturally turned to Utrecht, which was the new site of our editorial office. Because HSS had never met in Europe, nor in any place not called Canada or the United States, we recognized that this would be an experiment; it was a way of altering the variables of our typical meeting to see what worked and what could be discarded as we sought to broaden our international stature. As plans unfolded, so did the variables, so that the 2019 conference will scarcely be recognizable to those who faithfully attend HSS. Here’s what to expect.

Why no meeting in November? Since the early 1990s, when we stopped meeting with the American Historical Association in December of certain years, the HSS has almost always met in November. When we first considered meeting in Europe, we recognized that the majority of our attendees would be coming from North America, and we knew that a November conference would be difficult for those trying to juggle the conference with their classrooms and their jobs: a feat that our non-North American colleagues are somehow able to accomplish each year. We thought it would be nice to extend the conference by a day, to allow more time for recovery from long flights and to give people more opportunities to connect, which would be difficult in November. We also wanted to use the facilities at the University, which would save us tens of thousands of dollars in a/v and wifi costs, and which would not have been possible during the term (our a/v and wifi bill for Seattle was just shy of $45,000 US). It would also give our delegates the opportunity to experience fully the largest university in the Netherlands and give delegates a sense of what HSS conferences used to be like when we regularly met on campuses.

But a particular challenge in holding a summer meeting is that many sister societies hold summer conferences, and we did not want to interfere with those. We first confirmed that the European Society for the History of Science was not meeting (their conference is biennial, in even-numbered years), and we also wanted to make sure that we did not overlap with the British Society. We tried to coordinate the timing with the ISHPSSB meeting in Oslo, which proved impossible, but we were able to synchronize the dates with the large quadrennial Division of Logic, Methodology, and Philosophy of Science and Technology, which is meeting in Prague in
early August. Those dates were perfectly aligned until I receive a panicked message from our local hosts to inform us that the Jehovah’s Witnesses would be holding an international congress in Utrecht over our dates and some 45,000 JW’s would be in town leaving no hotel space for miles around. We could not move later in August so we moved a bit earlier, to July.

**Where is the big box hotel?** The short answer is that there is no hotel in Utrecht that could hold our meeting and even the ones with a large number of sleeping rooms do not have conference space, which we would have been forced to rent. Although there are advantages to everyone being in one location for the conference, there are also obvious drawbacks to spending days in a large corporate structure. The advantages for the large hotel include free meeting space if we meet our sleeping block and although we are not paying for university space, we did have to rent venues that could hold large crowds for the plenary, the distinguished lecture, and the Elizabeth Paris lecture (the Janskerk, the Domkerk, and the railway museum, respectively). The advantage is that we will be in beautiful spaces, some of them dating back to the Middle Ages, and we hope that this will improve your experience. Attendees will also have a chance to see the city – Utrecht is a lovely Stad – and when we meet in a hotel, some attendees never leave the grounds.

**Where is the center?** Another plus for a hotel meeting is that the center of activity is located in the book exhibit and meeting registration area. “Let’s meet at the book exhibit” is a common phrase. We have tried to reproduce that for Utrecht with the exhibit (the town square) being located in Drift 21, along with registration. We will have a room there where people can relax “The Meeting Point,” and we will offer coffee and tea throughout the day. Drift 21 is a lovely building and we initially had many of our sessions located there, but the building has no lift, which immediately ruled out assigning sessions above the ground floor.

**Will anyone come?** Since 2/3 of the HSS membership is located in North America, we worried a great deal about attendance. We had spoken to colleagues at SHOT and 4S and they reported that their attendance for such meetings did not drop off, that people who typically did not attend their conferences would come. This has proven true with Utrecht – in fact, even more so. We saw the highest number of submissions in many years and we expect our attendance will be equal to – or may surpass – the number of delegates who attended our conferences in Chicago and San Francisco. Anyway, we are glad that you are here. If you are not a member of HSS, please join us. These conferences would not be possible without our members.

– Jay Malone
LUNCH SPOTS CLOSE TO DRIFT

0-3 minutes
1. New York Pizza
   - 2 minutes
   - Pizza
2. Do ontdekking Utrecht
   - 2 minutes
   - Sandwiches, soup and salads
3. Polé Perfect
   - 2 minutes
   - Hawaiian inspired
4. Grand Café Zussen
   - 2 minutes
   - Sandwiches
5. Gys
   - 3 minutes
   - Organic and vegan
6. Pampallini
   - 3 minutes
   - Peran

4-6 minutes
7. Plus
   - 4 minutes
   - Supermarket
8. Loetje
   - 4 minutes
   - Sandwiches and salads
9. Ubika
   - 4 minutes
   - Sandwiches, soup and salads
10. STAN&CO
    - 4 minutes
    - Sandwiches, soup and salads
11. Loof
    - 5 minutes
    - Mediterranean sandwiches, soup and salads

7-10 minutes
12. Anne&Max
    - 6 minutes
    - Sandwiches, soup and salads
13. PK Bar & Kitchen Utrecht
    - 7 minutes
    - Sandwiches, soup and salads
14. VIS & MEER
    - 8 minutes
    - Fish and sandwiches
15. Luc. Utrecht
    - 8 minutes
    - Sandwiches, soup and salads
16. Kimmade Vietnamese Street Food
    - 9 minutes
    - Vietnamese
History of Science Society Volunteers

Thank you to our volunteers! The following volunteers either finished their terms in June, or will finish at the end of this calendar year. Please tell them how much you appreciate their service. Without our volunteers, the Society could not function.

Editor

Book Review Editors
Huib Zuidervaart, (2017-2019)

Past President
Janet Browne (2018-2019)

Council Delegate

Council Members (2017-2019)
Susan Jones
Gordon McOuat
Erika Milam
Suman Seth
Gabriela Soto Laveaga

Committee on Advocacy
Marc Rothenberg, Chair, (2016-2019)
Kathy Olesko, (2016-2019)
Melinda Baldwin, (2017-2019)

Committee on Education and Engagement
Lloyd Ackert, Chair (2014-2019)

Committee on Honors and Prizes
Antonella Romano (2017-2019)

Prize committee members serve as chair in their final year

Watson Davis and Helen Miles Davis Prize
Mary Terrall, Chair, 2017-2019
Patrick McCray, 2018-2019
Joseph H. Hazen Education Prize  
JB Shank, Chair, 2017-2019

Philip J. Pauly Prize  
Jacob Hamblin, Chair, 2018-2019

Pfizer Award  
Dagmar Schäfer, Chair, 2017-2019  
Crosbie Smith, 2016-2019 (Also served as chair in 2016 and 2018)

Derek Price/Rod Webster Award  
Anya Zilberstein, Chair, 2017-2019

Ronald Rainger Prize  
Alexandra Hui, Chair, 2018-2019

Nathan Reingold Prize  
Simon Werrett, Chair, 2017-2019

Margaret W. Rossiter History of Women in Science Prize  
Theresa Levitt, Chair, 2017-2019

Committee on Meetings and Programs  
Michael Reidy (2017-2019, Program Co-Chair)  
David Sepkoski (2017-2019, Program Co-Chair)  
Bruce Hevly (2017-2019, Local Arrangements)

Committee on Membership  
Neeraja Sankaran (2016-2019)

Nominating Committee  
Paola Bertucci, Chair (2018-2019)  
Jahnavi Phalkey (2017-2019)  
Jutta Schickore (2017-2019)

Committee on Publications  
Matt Jones, Chair (2015-2019)  
Jan Golinski, Ex Officio (2018-2019)

Women’s Caucus  
Jenna Tonn, Co-Chair (2017-2019)

Graduate and Early Career Caucus  
Kris Palmieri, Chair (2017-2019)

Ombudsperson  
Sally Gregory Kohlstedt (2017-2019)
Respectful Behavior Policy

Freedom of expression and vigorous debate are crucial to scholarly exchange. The History of Science Society strongly values mutual respect and strives to provide an environment for exchange that is free from bias and intimidation. The Society is dedicated to securing a safe, hospitable, and productive environment for everyone. Accordingly, the Society deplores all harassment and is sensitive to the harm suffered by persons who experience it. We expect speakers and questioners at our meetings to demonstrate self-control and civility, even in the midst of strong disagreement, and not to engage in ad hominem attacks. Furthermore, we expect those participating in the Society’s meetings and events to treat others with respect and not to engage in behavior that is discriminatory, intimidating, threatening, or harassing. This expectation applies to our speakers, staff, volunteers, and attendees.

Nondiscrimination and Anti-Harassment Standards
The Society prohibits any unwelcome conduct that is based on an individual’s sex (including pregnancy), sexual orientation, gender identity, race, color, religion, national origin, age, marital status, disability, or employment status and that creates an environment that a reasonable person would consider intimidating, hostile, or abusive. Harassment may include such actions as: (1) inappropriate physical contact; (2) inappropriate jokes or verbal kidding or teasing; (3) verbal abuse and epithets; (4) degrading comments; (5) the display of offensive or sexually suggestive objects or pictures; (6) conduct or comments of a lewd or lascivious nature, including subtle pressure for sexual activity; (7) repeated offensive sexual flirtations, advances, or propositions; and (8) any other conduct that the individual (or group of individuals) might reasonably find to be intimidating, hostile, offensive, coercive, or threatening. Sexual harassment does not refer to occasional compliments of a socially acceptable nature or consensual personal and social relationships.

Reporting
If an individual or group of individuals believes that they have experienced any violation of this policy at a Society meeting or event, the person or group should report the incident immediately to the Society Ombudsperson (ombudsperson@hssonline.org). Although anyone may seek advice from the Ombudsperson, only the individual or individuals alleging that they have been harassed may file a complaint. The Ombudsperson shall listen to the grievance, describe the policy and procedures, outline issues of privacy and confidentiality, and discuss possible courses of action regarding the filing or non-filing of a formal complaint. The Ombudsperson shall take all reasonable efforts to maintain in strict confidence the identity of
individuals reporting an incident and the person or persons implicated in an incident. The Ombudsperson shall prepare for Council annually an aggregate, anonymized summary of all such reported incidents.

If an individual elects to file a formal complaint, that person must describe the incident in a non-confidential written statement delivered to the Ombudsperson within sixty (60) calendar days of the alleged conduct and preferably immediately following the incident. The Ombudsperson will provide the statement concurrently to the accused party or parties and to the three-person Respectful Behavior Review Committee. The accused party may elect to file a written response, and if so, the written response must be filed with the Ombudsperson within sixty (60) calendar days of receipt of the initial written complaint. The Chair of the Committee shall contact both parties to discuss the incident and determine whether there is a mutually acceptable resolution. If no such resolution can be found, the Committee shall determine whether the incident constituted harassment under the terms of this Policy. If the Committee determines the incident constituted harassment, it shall furnish a report of the incident, the Committee’s findings, and a recommended sanction, if any, to the Secretary of the Council within sixty (60) days.

Sanctions
The Council shall consider the case. If a majority of the entire Council concurs with the recommendations of the Committee, the Council Executive Committee shall issue a written reprimand including any sanctions banning the individual from future meetings and/or revoking the individual’s membership. The Secretary of the Council will report the outcome to all parties involved, which is final.

Society Ombudsperson: ombudsperson@hssonline.org

Approved by HSS Council, 7 June 2017
Statement on Scholarly Conduct

At its 18 June 2018 virtual meeting, the HSS Council endorsed the following statement on professional conduct. The statement will appear on all HSS media.

HSS believes scholarly conduct should adhere to the highest ethical and professional standards. The Society expects contributors to its publications and meetings to present original work that respects the integrity of the research process and that conforms to rigorous standards in the citation and acknowledgment of the work of other scholars. The American Historical Association’s Statement on Standards of Professional Conduct is a useful guide.

INTERESTED IN VOLUNTEERING FOR THE HSS?

We’re always looking for dedicated volunteers to help run the Society and advance the history of science. Visit our website (hssonline.org) and click on Volunteer in the sidebar to sign up.
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 are curious about a particular group, please attend the business meeting and/or contact the current chair(s).

Graduate and Early Career Caucus

Co-Chairs: Kristine Palmieri & Sarah Naramore

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, hssgecc.wordpress.com.

The chairs and officers are graduate students and early career members of HSS, who act as liaisons between the 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.

2019 SPONSORED SESSIONS AND EVENTS

- GECC Welcome Room (Daily, Drift 21, Rm. 109)
- Mentorship Meet and Greet (Tues., 23 July, 20:00-22:00, Janskerk, Kapitellkamer)
- GECC Mixer (Wed., July 24, 20:00-23:00, De Rechtbank, Korte Nieuwstraat 14)
- Women’s Mentorship Event (Thurs., July 25, Drift 21, Rm. 105)
- Business Meeting (Friday, July 26, 09:00-09:45, Drift 21, Rm. 105)
- Tacit Knowledge Event: Academic Internationalisms (Friday, July 26, 09:45-11:45, Drift 21, Rm. 105)

Women’s Caucus

Co-Chairs: Jenna Tonn & Alix Cooper

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 nursing mother’s 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. We also coordinate a list serve and a Facebook group: facebook.com/groups/HSSwomenscaucus/.

2019 SPONSORED SESSIONS AND EVENTS

- Gendering Development (Wed., July 24, 09:00-11:45, Drift 21, Rm. 005)
- Women’s Caucus Breakfast (Fri., July 26, 07:30-09:00, Drift 27, Eetkamer)

Early Science Forum
Chair: Anne-Laurence Caudano

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.

2019 SPONSORED SESSIONS AND EVENTS

- Classifications and Categories in the Early Sciences (Fri., 26 July, 09:00-09:45, Drift 25, Rm. 102)
- Business Meeting (Fri., July 26, 12:00-13:00, Drift 25, Rm. 103)

Earth and Environment Forum
Chair: Jeremy Vetter

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.
2019 SPONSORED SESSIONS AND EVENTS

- Business Meeting (Fri., July 26, 11:00-11:45, Drift 25, Rm. 206)

Forum for History of Human Sciences
Chair: Laura Stark

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.

2019 SPONSORED SESSIONS AND EVENTS

- Distinguished Lecture (Thu., 12:00-13:30, Drift 27, Eetkamer)
- The Epistemology of the “Match” (Fri., July 26, 09:00-11:45, Janskerhof 2-3, Rm. 103)

Forum for the History of Science in Asia
Chair: Minakshi Menon

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.

2019 SPONSORED SESSIONS AND EVENTS

- Science and Its Local Readers in British India (Fri., July 26, 09:00-11:45, Drift 27, Rm. 032)
- Business Meeting (Fri., July 26, 12:00-13:15, Drift 27, Rm. 032)

Forum for the History of the Chemical Sciences
Chair: Jennifer Rampling

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 U.S. and abroad.

**2019 SPONSORED SESSIONS AND EVENTS:**

- Intoxicating Histories: Chemicals and the Altered Body in the 19th and 20th Centuries (Fri., July 26, 09:00-11:45, Drift 25, Rm. 101)
- Business Meeting (Fri., July 26, 11:45-12:15, Drift 25, Rm. 101)

**Forum for the History of the Mathematical Sciences**

*Chair: Karen Parshall*

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.

**2019 SPONSORED SESSIONS AND EVENTS**

- Bourbaki Reconsidered: Origins, Operations, and Legacies (Fri., July 26, 09:00-11:45, Drift 21, Rm. 005)

**Physical Sciences Forum**

*Chair: Ann Robinson*

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.
2019 SPONSORED SESSIONS AND EVENTS

- Cosmic Stories: Astrophysics and the Invention of Cosmology in the Early 20th-Century (Fri., July 26, 09:00-11:45, Drift 13, Rm. 003)
- Distinguished Lecture (Fri., July 26, 12:00-13:15, Drift 13, Rm. 004)

Forum for the History of Health, Medicine and the Life Sciences
Chair: Elizabeth Neswald

The Forum for the History of Health, Medicine, and the Life Sciences aims to create a venue at the HSS for historians of the medical and life sciences (including nursing, traditional health practices, dentistry, veterinary medicine, public health, pharmacy etc.) to engage in conversations across disciplinary and chronological boundaries around shared themes and methodological questions. It takes an inclusive approach to its represented area, in order to promote chronological, geographic and thematic diversity and broaden the potential for collaborative interactions. The Forum organizes roundtables and sessions at the HSS, collaborates with societies and associations for the history of medicine to promote cross-meeting interaction, and supports graduate student work with its essay prize.

2019 SPONSORED SESSIONS AND EVENTS

- Business Meeting (Fri., July 26, 09:00-11:45, Drift 25, Rm. 204)

- PROPOSED -

Collections, Archives, Libraries, and Museums (CALM) Caucus
Chairs: Benjamin Gross and Pedro Raposo

The Collections, Archives, Libraries, and Museums (CALM) Caucus aims to provide a space for scholars interested in the history of collection-based institutions or efforts to mobilize collections to explore the history of science, technology, and medicine in new and creative ways. The CALM Caucus will also serve as a venue where experienced professionals can provide guidance and support to scholars seeking to pursue careers as curators, librarians, or archivists. In this organizational meeting, the CALM Caucus will focus on gauging broader interest in these topics and how best to address them at future HSS conferences.

2019 SPONSORED SESSIONS AND EVENTS

- Organizational Meeting (Fri., July 26, 12:00-13:00, Drift 21, Rm. 005)
Find the latest titles in the history of science at the HSS Book Exhibit. For exhibit map, publisher and press information, and other details, please see the meeting website: hss2019.hssonline.org.

<table>
<thead>
<tr>
<th>Publisher</th>
<th>Table No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brepols</td>
<td>9</td>
</tr>
<tr>
<td>Brill</td>
<td>3</td>
</tr>
<tr>
<td>Cambridge University Press</td>
<td>2</td>
</tr>
<tr>
<td>Cold Springs Harbor</td>
<td>12</td>
</tr>
<tr>
<td>Eurospan</td>
<td>CBE</td>
</tr>
<tr>
<td>Havard University Press</td>
<td>CBE</td>
</tr>
<tr>
<td>Huygens ING</td>
<td>11</td>
</tr>
<tr>
<td>Palgrave Macmillan</td>
<td>6</td>
</tr>
<tr>
<td>Princeton University Press</td>
<td>7</td>
</tr>
<tr>
<td>Royal Society Publishing</td>
<td>4</td>
</tr>
<tr>
<td>Science Museum</td>
<td>CBE</td>
</tr>
<tr>
<td>Taylor &amp; Francis</td>
<td>8</td>
</tr>
<tr>
<td>The MIT Press</td>
<td>10</td>
</tr>
<tr>
<td>University of California Press</td>
<td>CBE</td>
</tr>
<tr>
<td>University of Chicago Press</td>
<td>1</td>
</tr>
<tr>
<td>University of North Carolina Press</td>
<td>CBE</td>
</tr>
<tr>
<td>University Pennsylvania Press</td>
<td>CBE</td>
</tr>
<tr>
<td>Wiley</td>
<td>5</td>
</tr>
<tr>
<td>Yale University Press</td>
<td>CBE</td>
</tr>
</tbody>
</table>

*CBE = Collective Book Exhibit*
General Meeting Information

Opening and Closing Times
Tuesday, July 23 13:00-17:30
Wed. July 24 08:00-17:30
Thurs., July 25 08:00-17:30
Fri., July 26 08:00-17:30
Sat., July 27 08:00-12:00

Registration
Drift 21, Rm. 004, Antichambre
Claim your name badge and pick up your registration materials.

Book Exhibit & HSS Cafe
Drift 21, Hall & Rm. 006
Have some coffee and tea while you peruse the latest titles in the history of science.

Meeting Point
Drift 21, Rm. 003
Meet a friend to chat or take a seat while you wait for the next session to begin.

Quiet Space
Drift 25, Rm. 104
Need to send out an email? Take a break in our quiet room.

Nursing Mother’s Room
Janskerkhof 13, Room 113
Privacy and other accommodations available for nursing mothers. Visit the registration desk for the key.

Session Structure
Attendees are encouraged to rotate during sessions. Each presentation is allotted 30 minutes. If you wanted to hear the third paper of a session, e.g., you should join the session one hour after it begins. Please note that we break from 10:00-10:15 during sessions from 09:00 to 11:45.

Decoding Drift
Meeting locations are provided as the building address, followed by the floor and room number. E.g., Drift 21, Rm. 005 is the street (Drift) and address number, 21. Rm. 005 is the floor number, 0, plus the room number, 05.

Please note that room capacities are strictly enforced. This number will be located near the door. In general, once all the seats are occupied, the room has reached capacity.

Wifi
Wifi is available throughout the Utrecht Campus. If your home institution supports it, you can use the eduroam network. Otherwise, use uu-visitor.

All other venues will also have wifi available, with the exception of the Domkerk, the venue for Thursday’s Prize Ceremony and Distinguished Lecture.
Tuesday, 23 July 2019

18:00–19:30

PLENARY SESSION

Janskerk, Janskerkhof 26

Abstract: As historians of science, we are all somehow engaged – whether it’s with our research, our teaching, the dynamics of our field, or thinking about how our expertise might be brought to bear on the myriad of challenges facing our world today. This year’s plenary session explores what it currently means to be an engaged historian of science with an eye toward inviting further conversation with our audience and within the history of science community more broadly. The session will feature a small number of young colleagues whose research and related activities exemplify creative forms of engagement both within and beyond our discipline. This will be followed by a presentation by Sheila Jasanoff, in which she draws on her broad expertise to reflect on how engaged scholarship deepens our understanding of the roles of science in society and of society in science.

The plenary is being supported by the Elizabeth Paris Endowment for Socially Engaged History and Philosophy of Science. The Endowment honors the life of Elizabeth Paris, a scholar who was committed to integrating the intellectual side of the history of science with its social, institutional, and policy aspects.

Moderator & Organizer: Lissa Roberts (University of Twente)

Speakers:

• Sheila Jasanoff (Harvard University)
• Edna Bonhomme (Max Planck Institute for History of Science)
• Benjamin Franta (Stanford University)
• Joppe Van Driel (Max Planck Institute for History of Science)

19:30–20:30

OPENING RECEPTION

Janskerk, Janskerkhof 26

Light hor d’oeuvres and cash bar.

Sponsored by the University of Chicago Press, Journals Division

20:00–21:45

MENTORSHIP MEET AND GREET

Janskerk, Kapittelkamer

Organized by the Graduate and Early Career Caucus
Wednesday, 24 July 2019

09:00–11:45

BEYOND ERADICATION: GLOBAL ENTOMOLOGICAL NARRATIVES
Drift 25, Rm. 302

Moderator & Organizer: Susan Jones (University of Minnesota)

• “Pick Your Poison: Insecticides and Locust Control in Colonial Kenya,” Sabine Clarke (University of York)
• “Beginning of the Entomological Enterprise in China: Jiangsu Provincial Bureau of Entomology and Its Locust Control, 1922-1931,” Yubin Shen (Max Planck Institute for the History of Science)
• “Mechanization by Insect: Multi-Species Ecologies in the Malaysian Plantationocene,” Aaron Van Neste (Department of the History of Science, Harvard University)
• “War and Insect Control in Russia / Soviet Union, 1900-1940,” Marin Coudreau (Center for Russian, Caucasian and Central European Studies, Paris.)
• “Locust Pests and Biological Control in Argentina during the First Half of the Twentieth Century,” Alejandro Martinez (Universidad Nacional de la Plata, Argentina)

BEYOND TECHNICAL AID: COLD WAR SCIENTIFIC CO-OPERATION IN EAST ASIA
Drift 25, Rm. 303

Moderator: Mary Augusta Brazelton (History and Philosophy of Science, University of Cambridge)

Organizers: Jaehwan Hyun (Max-Planck-Institute for the History of Science) and John Dimoia (Seoul National University)

• “Parasites and the Postcolonial: Renewed Japan-Korea Medical Collaboration and South Korean Developmentalism, 1964-Early 1970s,” John Dimoia (Seoul National University)
• “The Pacific’s Black Current: China, Japan, and the “Cooperative Study of the Kuroshio and Adjacent Regions” (CSK), 1965-1978,” Christine Luk (Department of the History of Science, Tsinghua University)
• “Commentary: Beyond Technical Aid: Cold War Scientific Cooperation in East Asia,” Mary Augusta Brazelton (History and Philosophy of Science, University of Cambridge)
CHEMISTRY IN THE NINETEENTH AND TWENTIETH CENTURIES
Drift 25, Rm. 204
Sponsored by the Society of the History of Alchemy and Chemistry
Moderator: Lissa Roberts (University of Twente)
• “Constructing Humphry Davy’s Biographical Image,” Frank James (University College London and Royal Institution)
• “Mendeleev’s Periodic System of Elements and Croatian Academy of Sciences and Arts,” Vanja Flegar (Institute for the History and Philosophy of Science, Croatian Academy of Sciences and Arts, Zagreb)
• “The Object of Secret Science: Censoring Hormone Herbicides in the Second World War,” Alison McManus (Princeton University)
• “Heuristics in Chemistry: Friedrich Paneth and Abductive Reasoning (Serendipity),” Christoph Maulbetsch (University of Stuttgart)

EARLY MODERN SCIENCE AND ART IN A GLOBAL CONTEXT
Drift 27, Eetkamer
Moderator: Surekha Davies (Utrecht University)
Organizer: Dániel Margócsy (HPS, University of Cambridge)
• “Stradanus’ Nova Reperta: A Tory Interpretation of History,” Dániel Margócsy (HPS, University of Cambridge)
• “Whenever the Rules... Should Fail, and Grow Tediou’s: On the Limits of Perspectival Representation,” James Clifton (Sarah Campbell Blaffer Foundation)
• “Nature, Ingenuity, and Invention in Seventeenth-Century Spanish Thought: The Writings of Juan Eusebio Nieremberg (1595-1658),” Jose Ramon Marcaida (University of St Andrews)
• “The Kangaroo and Other Natural Wonders: Picturing Pacific Exploration ca. 1770,” Stephanie O’Rourke (University of St Andrews)
• “Commentary: Early Modern Science and Art in Global Context,” Surekha Davies (Utrecht University)

FLASH TALKS ⚡
Janskerhof 2-3, Rm. 013
Moderators: Bernard Lightman (York University), Marsha Richmond (Wayne State University), Johan Schot (University of Sussex)
• “We need to talk about Richard Owen,” Daniela Sclavo (University College of London)
• “At Home in the Museum: The Collection of Frederik Ruysch,” Isabella Van Paasschen (Yale University)

• “Biodiversity on Display: Museological and Scientific Practices in Natural History Museums Exhibitions,” Mariana Soler (IHC - CEHFCi - University of Évora)

• “Mapping and the Microscope,” Pamela Mackenzie (University of British Columbia)

• “Natural Sciences in the Thought of Jabir ibn Hayyān,” Marziyehsadat Montazeritabar (Institute for the History of Natural Sciences, Chinese Academy of Sciences)

• “Printing Between the Lines: A Sixteenth-Century Historical Table,” Ashley Gonik (History, Harvard University)

• “Science Policy in Portugal: The Instituto Nacional de Investigação Científica (INIC),” Hugo Soares (CIUHCT, New University of Lisbon)

• “Specimens of Trade: Medical Treatments and Knowledge from Herbal Texts over Time and Space,” Marianne Jennifer Datiles (University College London)

• “The Making of a Science of Substance after Quantum Mechanics in Japan: The Emergence of ‘Busseiron’ around 1940,” Hiroto Kono (Tokyo Institute of Technology, Research Fellow of Japan Society for the Promotion of Science)

• “The Slow Appearance of Radiation Risk Perception,” Ana Rita Melo (Coimbra University, Portugal)


GENDERING DEVELOPMENT
Drift 21, Rm. 005
Sponsored by the Women’s Caucus
Moderator: Charu Singh (University of Cambridge)
Organizer: Barbara Pohl (Yale University)

• “Changing Minds: Feminist Methods in Anthropology,” Barbara Pohl (Yale University)

• “Women’s Place in Developmental Theory: From Androcentrism to Anti-Feminism,” Susanne Schmidt (Freie Universität Berlin)

• “Bloated Bellies and Bleeding Thyroids: Needling at Gendered Bodies in Acupuncture Anesthesia (1950-1970),” Lan Li (Columbia University)

• “Egypt’s TV Sexologists and the Politics of Modern Femininity,” Soha Bayoumi (Harvard University)

• “Commentary: Gendering Development,” Eli Nelson (Williams College)
HISTORICAL PERSPECTIVES ON CITIZEN SCIENCE FOR THE “POST-NORMAL” AGE

Drift 25, Rm. 102

Moderator: Sally Shuttleworth (University of Oxford)
Organizer: Deborah Coen (Yale University)

- “Science, Democracy, and the Pursuit of Aliens,” Bruno Strasser (University of Geneva)
- “Citizen, Science, and Citizen Science,” Fa-Ti Fan (Binghamton University)
- “Climate Science By and For Citizens,” Deborah Coen (Yale University)
- “Plant Research in the Age of Public Engagement,” Vanessa Sellers (New York Botanical Garden, Humanities Institute)
- “Maoist “Mass Science” and Participatory Action Research: A Case Study in the Global History of Participatory Knowledge-Making,” Sigrid Schmalzer (University of Massachusetts Amherst)

MANUSCRIPTS, INSTRUMENTS, TABLES AND COMPUTATION IN ALFONSINE ASTRONOMY

Drift 25, Rm. 206

Moderator: Rich Kremer (Dartmouth College)
Organizer: Matthieu Husson (Paris Sciences et Lettres Research University- CNRS)

- “Time, Sense Perception, and Experiential Knowledge in John of Saxony’s Epochs of Nations,” Nicholas Jacobson (CNRS SYRTE)
- “Theory and Practice of Eclipse Computations by John of Genoa in the 1330s,” Laure Miolo (CNRS SYRTE)
- “Embedding New Theory in Brass: Alfonsine Trepidation Spheres,” Samuel Gessner (CNRS SYRTE UMR 8630)
- “The Visual Culture of Alfonsine Astronomy: The Case of Getty Museum, Ludwig XII.7,” Laura Fernández Fernández (Universidad Complutense de Madrid ERC ALFA, Spain)
- “Commentary: Manuscripts, Instruments, Tables and Computation in Alfonsine Astronomy,” Matthieu Husson (Paris Sciences et Lettres Research University- CNRS)

MASTERING NATURAL KNOWLEDGE IN THE PORTUGUESE EMPIRE: TRANSFORMING BODIES, EXPLORING NATURE, GOVERNING SPACE

Drift 25, Rm. 301

Moderator: Hugh Cagle (University of Utah)
Organizer: Patrícia Martins Marcos (University of California, San Diego)

• “Medical Practices in Early 20th Century São Tomé’s Cocoa Plantations,” **Marta Macedo** (University of Lisbon)

• “Encounters in Africa: When Livingstone Met Welwitsch,” **Sara Albuquerque** (Universidade de Évora)

• “From Place to Race: Medicine, Natural Philosophy, and Human Diversity in Eighteenth-Century Brazil,” **Patrícia Martins Marcos** (University of California, San Diego)

• “Commentary: Mastering Natural Knowledge in the Portuguese Empire: Transforming Bodies, Exploring Nature, Governing Space,” **Hugh Cagle** (University of Utah)

• “Elephant Empire beyond the Colonial Frontier,” **Marianna Szczygielska** (Max Planck Institute for the History of Science, Berlin)

• “Alfred Wallace’s Baby Orang-utan: A Game, a Pet, a Specimen,” **Shira Shmuely** (Tel Aviv University)

• “The “African Horse Sickness” and the Threat of Movement,” **Tamar Novick** (Max Planck Institute for the History of Science)

• “More Than Just Poop: Guano in Late 19th and Early 20th Century China,” **Sijia Cheng** (Universität Heidelberg)

• “Commentary: On the Move: Animal Histories Unleashed from the Cabinet of Curiosities,” **Lukas Rieppel** (Brown University)

**ON THE MOVE: ANIMAL HISTORIES UNLEASHED FROM THE CABINET OF CURiosITIES**

*Drift 27, Rm. 032*

Moderator: **Harriet Ritvo** (MIT)

Organizers: **Lisa Onaga** (Max Planck Institute for the History of Science) and **Tamar Novick** (Max Planck Institute for the History of Science)

• “al-ʿĀmirī on Nature and the Arts,” **Nicholas Aubin** (Humboldt-University Berlin)

• “Monstrous Births in Medieval Jewish Philosophy,” **Marienza Benedetto** (University of Bari (Italy))

• “Matter as Epistemic Object: Intellection, Manipulation, and Particularisation in the 13th Century,” **Nicola Polloni** (Institut für Philosophie, Humboldt Universität zu Berlin)

• “Laws of Nature and Nature’s Use and Manipulation According to Roger Bacon (ca. 1220-1292),” **Yael Kedar** (Tel-Hai College)

• “Roger Bacon’s *Scientia Experimentalis* as Technological Manipulation of Nature in Premodern Europe,” **Jeremiah Hackett** (University of South Carolina)
SLAVERY, MEDICINE, AND SCIENCE IN THE EARLY MODERN WORLD

Drift 13, Rm. 003

Moderator: Suman Seth (Cornell University)

- “Broken World Botany: Slavery and Natural Knowledge in the West African Slave Trading Zones,” Carolyn Roberts (History of Science and Medicine, Yale University)
- “Healing Waters of the Caribbean: Affliction and Hope in Creole Discourses on Water Cures,” Kristen Block (University of Tennessee)
- “Piracy, Slavery, and Eating in the Southern Pacific, 1580s-1720s,” Tamara Walker (University of Toronto, Department of History)
- “Slave Trading and the Ideation of Quantifiable Bodies in the Seventeenth Century,” Pablo Gómez (University of Wisconsin-Madison)
- “Captive Healthscapes: Slavery, Medicine, and Natural Inquiry in Early Modern Italy,” Lucia Dacome (University of Toronto, Institute for the History and Philosophy of Science and Technology)
- “The Known and the Lived: Melitta Schiller-Stauffenberg,” Daniela Helbig (University of Sydney)
- “On Ways of Dying: Biographies of Metaphors and the History of Science,” Lily Huang (The University of Chicago)
- “Of Ideas and Ideals: Biography as Analytic Tool,” Joan Richards (Brown University)

10:00–10:15

COFFEE BREAK ☕

Drift 21, Hall; Janskerkhof 2-3, Pantry; and Drift 27, Near Library & Courtyard

12:00–13:00

OSIRIS: PRESENTING PAST FUTURES

Drift 13, Rm. 004

Moderator: Patrick McCray (University of California, Santa Barbara)

Speakers:
- Suman Seth (Cornell University)
• Amanda Rees (University of York, UK)
• Iwan Rhys Morus (Aberystwyth University)
• Patrick McCray (University of California, Santa Barbara)

THE EARLY MODERN KNOWLEDGE SOCIETY
Drift 25, Rm. 102
Moderator: Fokko Jan Dijksterhuis (University of Twente/Vrije Universiteit)

Speakers:
• Bert De Munck (University of Antwerp)
• Thijs Weststeijn (Utrecht University)
• Inger Leemans (Vrije Universiteit Amsterdam)
• Fokko Jan Dijksterhuis (University of Twente/Vrije Universiteit)

THE HISTORY OF GENERATION: TOWARDS A FULLER STORY
Janskerhof 2-3, Rm. 013
Moderator: Rebecca Flemming (University of Cambridge)

Speakers:
• Rebecca Flemming (University of Cambridge)
• Leah Astbury (Department of History and Philosophy of Science, University of Cambridge)
• Anna Freidin (University of Michigan)

• Maaike Van Der Lugt (Université de Versailles (Paris Saclay))
• Ulrike Steinert (Johannes Gutenberg-University Mainz)
• Carmen Caballero-Navas (University of Granada, Spain)

MEETING OF THE COMMITTEE AND CAUCUS CHAIRS
Drift 25, Rm. 101

CHILDREN OF SCIENCE
Drift 13, Rm. 004
Moderator: David Robertson (Princeton University)
Organizer: Carola Ossmer (Leuphana Universität Lüneburg)

• “Raising a Well-Grown Child: Material and Media Cultures of Normal and Pathological Childhood,” Felix Rietmann (University of Fribourg)
• “Normal Children: Developmental Research and Educational Film for the New Deal,” Carola Ossmer (Leuphana Universität Lüneburg)
• “Children as Scientists: Ontogeny and the Social Construction of Cognition,” Jamie Cohen-Cole (George Washington University)
Wednesday, 24 July 2019 | 13:30–15:30

• “Commentary: Children of Science,” Henry Cowles (University of Michigan)

CONDITIONS OF DIFFERENCE: SCHOLARLY MIGRATION AND MEDICAL BOOK PRODUCTION IN THE 17TH CENTURY

DRIFT 13, RM. 003

Moderator: Harold Cook (Brown University)
Organizer: Anja Goeing (Harvard University)

• “Practising Medicine in Early Colonial Lima, Peru,” Linda Newson (Institute of Latin American Studies, University of London)
• “Preparing Princes or Who May Preserve the Ruler for Eternity?” Ulrich Schlegelmilch (Universität Würzburg)
• “Pupils Gone Putrid: The Moral and Intellectual Perils of Medical Peregrinations,” Joel Klein (The Huntington Library)
• “The Migration of Medical Dissertation Techniques from One Generation to the Next,” Anja Goeing (Harvard University)

FORENSIC FRAMEWORKS OF INNOCENCE

Drift 21, Rm. 005

Moderator: Fenneke Sysling (Descartes Centre, Utrecht University)
Organizer: Projit Bihari Mukharji (University of Pennsylvania)

• “Spontaneous Innocence: Physiological Knowledge in Medical Jurisprudence in British India, ca. 1856-1918,” Projit Bihari Mukharji (University of Pennsylvania)
• “Innocence in Cases of Infanticide: Dutch Forensic Medicine and Psychiatry, 1925-1950,” Willemijn Ruberg (Utrecht University)
• “Erle Stanley Gardner’s “Court of Last Resort” and the Pursuit of Wrongful Conviction in Cold War America,” Ian Burney (CHSTM, University of Manchester)
• “Technologies of Innocence and Guilt: The Introduction of New Forensic Technologies in Dutch Courtrooms,” Lara Bergers (Utrecht University)

LANDSCAPES OF KNOWLEDGE: STORIES OF AGRICULTURAL SCIENCE AND TECHNOLOGY

Drift 27, Rm. 032

Moderator: Karen Scholthof (Texas A&M University)
Organizer: Bradley Jones (Washington University)

• “Alternative Knowledge, Alternative Agriculture: Science for Life on a Damaged Planet,” Bradley Jones (Washington University)
• “Wet Knees and Cuckoo Holes: On the Materiality of Knowledge in the Dutch Dairy Sector,” James Babbitt
• “Queens and Genes: Making Knowledge of Microbial Resistance,” Andie Thompson (University of Amsterdam)

**LIFE SCIENCES IN THE TWENTIETH CENTURY**

*Drift 25, Rm. 102*

Moderator: Sam Muka (Stevens Institute of Technology; Lady Science)

- “A Web of One’s Own: Female Entomologists’ Scientific Networks in Late 19th Century and Early 20th Century Britain,” L. Joanne Green (University of Cambridge)
- “Houseflies and Fungi: The Septic Fringe and the Emergence of an Edwardian Biotechnology,” Matthew Holmes (University of Cambridge)
- “Libraries of Life: Microbial Culture Collections and the Chemical Order of Nature,” Charles Kollmer (Princeton University)
- “Correcting Life through the Marketplace? The History of Genome Editing and Academic Capitalism in South Korea,” Doogab Yi (Seoul National University)

**MATERIALS RESEARCH AND ITS TOOLKIT**

*Janskerhof 2-3, Rm. 013*

Moderator: Cyrus Mody (Maastricht University)

Organizer: Joseph D. Martin (University of Cambridge)

• “Too Many Cook(books) Spoil the Broth: Handbooks as Objects of Disciplinary Division,” Joanna Behrman (Johns Hopkins University)
• “New Tools for Making New Materials,” Cyrus Mody (Maastricht University)
• “Knowing Materials,” Joseph D. Martin (University of Cambridge)
• “Panel Discussion: Materials Research and Its Toolkit”

**MEASURING HEADS AND RACES: CONTINUITIES AND RUPTURES IN THE HISTORY OF BIOMETRY**

*Drift 25, Rm. 302*

Moderator: Luc Berlivet (French National Centre For Scientific Research (CNRS))

Organizer: Iris Clever (UCLA)

• “Facing the Past: Ancient Skulls and National Identity in the Middle East,” Elise Burton (University of Cambridge)
• “Skulls and Statistics: Karl Pearson and Competing Methods of Classifying Races in the Early 20th Century,” Iris Clever (UCLA)
• “What Is a Normal Face? Karl Pearson’s Principal Component Analysis, Facial Recognition Technologies, and Race,” Abigail Nieves Delgado (Ruhr University Bochum)
Organizer: Anna Toledano (Stanford University)

- “Traces of the Plant World: How to Read Botanical Prose,” Julia Heideklang (Humboldt-Universität zu Berlin)
- “Tracing Things and Knowledge in the Historia Medicinal (1569-74) by Nicolás de Monardes,” Anne Mariss (University of Regensburg)
- “Material Traces of Faraway Places: Specimens from Colonial New Spain in Madrid’s National Museum of Natural Sciences,” Anna Toledano (Stanford University)

SELF-TRACKING, SELF-MAKING, AND THE HISTORY OF SCIENCE

Drift 25, Rm. 303

Moderator: Volker Hess (Charité Berlin)

Organizer: Fenneke Sysling (Descartes Centre, Utrecht University)

- “Benchmarking the Self: François-Marc-Louis Naville and His Moral Tables,” Harro Maas (University of Lausanne)
- “Data Rituals: Measurement of Height and Weight in Baby Books, 1872-1940,” Fenneke Sysling (Descartes Centre, Utrecht University)
• “Responsible Selves: The Popularization of the Calorie, Scientific Expertise, and Citizenship in Early 20th Century US,” Nina Mackert (University of Erfurt)

• “Guidance Counseling in the Midcentury United States: Measurement, Grouping, and the Making of the Intelligent Self,” Jim Porter (Hugo Valentin Centre, Uppsala University)

UTOPIA AND CATACLYSM: THE SCIENCES OF PREDICTION AND THE LEAGUE OF NATIONS

Drift 25, Rm. 105

Moderator: Marcel Boumans
Organizer: Max Ehrenfreund (Harvard University)

• “Quantifying Uncertainty: The Failure of the First World Business Barometer,” Laetitia Lenel (Humboldt-University Berlin)

• “Statistics and Public Health at the League of Nations,” Heidi Tworek (University of British Columbia)

“The World Economy as Scientific Object, 1930-1939,” Max Ehrenfreund (Harvard University)

“The World Economy as Scientific Object, 1930-1939,” Max Ehrenfreund (Harvard University)

“The World Economy as Scientific Object, 1930-1939,” Max Ehrenfreund (Harvard University)

“From the Hague to Geneva: The World Order of the League of Nations,” Erwin Dekker (Erasmus School of History, Culture & Communication)

BEFORE THE PDF: WRITING, PUBLISHING AND MEASURING SCIENCE, CA. 1945-1980S

Drift 21, Rm. 005

Moderator: Michael Hagner (ETH Zürich)
Organizers: Alrun Schmidtke (Humboldt-Universität Zu Berlin; Gerda Henkel Scholar) and Mathias Grote (Humboldt-University Berlin)

• “Nations Can Publish or Perish? Scientific Metrics and Development,” Alex Csiszar (Harvard University)


• “The Role of International Journals in Epistemic, Political, and Community-Building Processes in Postwar Science: BBA’s Celebration Volume of 1989,” Dorien Daling (University of Groningen, Department of History)
Wednesday, 24 July 2019 | 16:00–18:00

- “Total Knowledge in Teutonic Tomes? Encyclopedic Handbooks in the Chemical Sciences, ca. 1930-1960,” **Mathias Grote** (Humboldt-University Berlin)

**GLOBAL MEDICINE**

*Drift 13, Rm. 003*

Moderator: **Gwen Kay** (SUNY Oswego)

- “The Malay Kitab Tibb at the Intersection of Malay Medical Practices, Islamisation of Knowledge, and Colonial Medicine,” **Sandra Khor Manickam** (Department of History, Erasmus University Rotterdam)
- “Local Lives, Global Networks: Disease, Medicine, and the Entangled Histories of Assam Tea Plantations (1900-1930s),” **Sudip Saha** (Department of History, North-Eastern Hill University, India.)
- “A Global Rumor and the History of Science: The Case of a Fake Snakebite Prize That Connected Brazil, the French, and the British Empires (1880-1914),” **Matheus Alves Duarte Da Silva** (Ecole des Hautes Etudes en Sciences Sociales)
- “Same Story, Different Setting: Using Goiter to Understand Calls for American Science at the Turn of the Nineteenth Century,” **Sarah Naramore** (Sewanee: the University of the South)

**HISTORY OF CONFERENCES**

*Drift 27, Rm. 032*

Moderator: **Dora Vargha** (University of Exeter)

Organizer: **Geert Somsen** (Maastricht University)

- “Laboratories of Cooperation: UNRRA’s Conferences,” **Jessica Reinisch** (Birkbeck College, University of London)
- “Meet the Elite: Nobel Symposia and Scientific Exclusivity,” **Sven Widmalm** (Dept for History of Science and Ideas, Uppsala University)
- “Chemical Bonding: Ritual and Community-Formation at Chemistry Conferences, 1921-22,” **Geert Somsen** (Maastricht University)
- Panel Discussion: “History of Conferences”

**IMAG(IN)ING SPACE: FIDELITY AND ARTISTIC LICENSE IN PURSUIT OF THE HEAVENS**

*Drift 25, Rm. 302*

Moderator: **David Devorkin**

Organizer: **Matthew Shindell** (Smithsonian National Air and Space Museum)

- “With “Scrupulous Fidelity” and “Majestic Beauty”: The Science and Art of E. L. Trouvelot’s Astronomical Drawings (1882),” **Lacey Baradel** (Independent scholar)
• “The Moon as It Should Have Been: Chesley Bonestell and the Pre-Apollo Lunar Landscape,” Lois Rosson (UC Berkeley)

• “Imaging the Planets in 3D: The Introduction of Computer Art at NASA’s Jet Propulsion Laboratory,” Rebecca Perry (Independent scholar)

• “The Future as We’ve Shown It: The Human Future in Space as Seen in Science Fiction,” Matthew Shindell (Smithsonian National Air and Space Museum)

• “Managing Mexican Crop Diversity from Rome,” Helen Anne Curry (University of Cambridge)

NARRATING GLOBAL ENVIRONMENT CHANGE: SOVIET INTERVENTIONS IN THE CLIMATE CHANGE & EARTH SCIENCE DEBATES OF THE LATE TWENTIETH CENTURY
Drift 25, Rm. 301
Moderator: Martin Mahony (University of East Anglia)
Organizer: Jonathan Oldfield (University of Birmingham, UK)

• “A Hero’s Counsel: Communist Climate Policy at the 1979 World Climate Conference,” Vladimir Jankovic (Centre for the History of Science, Technology and Medicine, University of Manchester)

• “Geophysical Collaboration under the U.S.-U.S.S.R. Environmental Agreement of 1972: Peaceful Coexistence, Collaborative Circles, and Friendship Dynamics,” Anna Amramina (University of Minnesota)

• “Soviet and Russian Studies of Long-Term Climate Change in Antarctica: The International Context,” Denis Shaw (University of Birmingham, UK)

• “Past Climates, Volcanoes, and Earth Analogues: Soviet Articulations of Climate Futures,” Jonathan Oldfield (University of Birmingham, UK)
POpUlation variaBility and huMan types: exPloring the scIEntific uses of race from the 1940s to the 1990s
Drift 25, Rm. 303
Moderator: Soraya De Chadarevian (University of California Los Angeles)
Organizer: Luc Berlivet (French National Centre For Scientific Research (CNRS))
- “Interracial Encounters in an Era of Identity Politics: The Study of Population Admixtures in Italy after the Second World War,” Luc Berlivet (French National Centre For Scientific Research (CNRS))
- “Many Shades of “Race”: Variations in the Concept of Race in French Sero-Anthropology between the 1940s and the 1970s,” Claude-Olivier Doron (Université de Paris)
- “What “Race” Does: Pluralism in Post-WWII Population Genetics,” Lisa Gannett (Saint Mary’s University, Halifax, Canada)
- “Population Genetics, Genetic Variation, and the Monomorphism of the Human Species,” Jean-Baptiste Grodwohl (Université Paris Diderot - SPHERE)

PRACTICES AND narraTIVES OF EXPERIENCE IN PREMODERN EURASIA
Janskerhof 2-3, Rm. 013
Moderator: Elaine Leong (University College London)
Organizer: Elly Truitt (Bryn Mawr College)
- “Epistemic Configurations: Experience in the Medieval Sciences of Soul and Body,” Katja Krause (Max Planck Institute for the History of Science / TU Berlin)
- “The Right Kind of Experience: Physicians, Empirics, and Poison Trials,” Alisha Rankin (Tufts University)
- “Experience, Discovery, and Utility: Roger Bacon in the Age of Francis,” Elly Truitt (Bryn Mawr College)
- “A Shared Enterprise of Knowledge: Ottoman and European Scholars on Experience and Revising Knowledge,” Duygu Yildirim (Stanford University)

sCIENCE AND FILM
Drift 25, Rm. 206
Moderator: Hansun Hsiung (Max Planck Institute for the History of Science / Durham University)
- “Moving on the Wall: Performing Organisms with the Solar Microscope,” Janina Wellmann (Leuphana Universität Lüneburg)
- “Silent Film in the History of Science: Jean Comandon, a Case Study,” Maia Woolner (UCLA)
- “Moving Pictures: Sociobiology and Public Persuasion,” Cora Stuhrmann (Ludwig-Maximilians-Universitaet Munich)
• “Scientific Animations: Filmology, Experiment, and the Human Sciences,” Sigrid Leyssen (Bauhaus-Universität Weimar)

SOUNDS OF LANGUAGE, LANGUAGES OF SOUND: HISTORIES OF THE HUMANITIES AND SCIENCES

Drift 25, Rm. 204

Moderator: Alexandra Hui (Mississippi State University)
Organizers: Viktoria Tkaczyk (MPIWG) and Julia Kursell (University of Amsterdam)
• “A Note on Tone: Carl Stumpf’s Tone Psychology and the Violin,” Julia Kursell (University of Amsterdam)
• “The Languages of Sound: Pitch Data across Fields, Disciplines, and Nations in Europe and the United States (1877–1900),” Fanny Gribenski (Max Planck Institute for the History of Science, Berlin)
• “Between Signal and Symbol: Sound, Speech, and the Data of Language,” Xiaochang Li (Stanford University)

THE BIOLOGY OF SEX AND DEVELOPMENT

Drift 25, Rm. 102

Moderator: Susanne Schmidt (Freie Universität Berlin)

• “The Radical Sexual Biology of Magnus Hirschfeld,” Tom Butcher (University of Virginia)
• “Unresolved Conflicts about Sex: Julian Huxley and the Progress of Sexology in Britain, 1916-1930,” Ross Brooks (Oxford Brookes University)
• “From Entomological Research to Culturing Tissues: An Attempt to Retrace Aron Moscona’s Investigative Pathway,” Alessandra Passariello (Jacques Loeb Centre, Ben Gurion University of the Negev)
• “Storied Sex: U.S. Sex Education Films in Sweden, 1925-1933,” Saniya Lee Ghanoui (University of Illinois at Urbana-Champaign)

THE IMPACT OF LONG TERMS: RESOURCE PLANNING AND SOCIAL ENGINEERING (CA. 1850-1950)

Drift 25, Rm. 105

Moderator: Anna Echterhölter (History of Science, University of Vienna)
Organizers: Sebastian Felten (University of Vienna) and Anna Echterhölter (History of Science, University of Vienna)
• “All the Gold in the World: Colonial Extraction, Geology, and Mining Statistics, c. 1830-1890,” Sebastian Felten (University of Vienna)
• “Reconstructing the Nation: The German Institute for Norms,” Anna-Maria Meister (TU Munich)
Thursday, 25 July 2019

09:00–11:45

ATMOSPHERIC MATTERS

Drift 25, Rm. 302

Moderator: Vladimir Jankovic
(Centre for the History of Science, Technology and Medicine, University of Manchester)

Organizers: Samuel Randalls
(University College London) and Martin Mahony
(University of East Anglia)

• “Shattered Tubes and Spilled Mercury: Meteorological Instruments and Their Challenges, ca. 1790-1850,” Linda Richter
(Goethe University, Frankfurt)

• “Instruments, Observations and Observatory Science on Ben Nevis,” Simon Naylor
(University of Glasgow)

• “Assembling Cyclones: The Matter of the Weather in Colonial Mauritius,” Martin Mahony
(University of East Anglia)

• “Negotiating Tropical Difference: Meteorological Infrastructures in India, 1900-1952,” Sarah Carson
(Princeton University)

• “Ellsworth Huntington, Punch Cards, and Climate and Mortality Research in the Early 1920s,” Samuel Randalls
(University College London)

GECC MIXER

De Rechtbank, Korte Nieuwstraat 14

Come meet and mingle with fellow graduate students and early careerists. Sponsor by the Graduate and Early Career Caucus.

Thursday, 25 July 2019

20:00–23:00

20:00–23:00

GECC MIXER

De Rechtbank, Korte Nieuwstraat 14

Come meet and mingle with fellow graduate students and early careerists.

Sponsored by the Graduate and Early Career Caucus.

Thursday, 25 July 2019 | 20:00–23:00

• “Redistributing the Resources for Intellectual Work: Ernest Solvay’s Energetic Sociology and the Call for Inheritance Taxation,” Monika Wulz (ETH Zurich)

• “Knowledge of the Unknown: On the “Dark Figure of Crime” in 19th-Century Germany,” Sophie Ledebur (Humboldt-Universität zu Berlin)
BODIES OF ARTISANS/ARTISANS
OF THE BODY: OBJECTS, TEXTS,
AND TECHNIQUES, 1650-1800

Boothstraat 7, Zalen van Zeven - Church hall

Moderator: Lucia Dacome
(University of Toronto, Institute for the History and Philosophy of Science and Technology)

Organizers: Maria Pia Donato
(C.N.R.S. / Institut d'Histoire Moderne et Contemporaine, Paris, France) and Paola Bertucci
(Yale University)

• “Priest-Pharmacists and the Domestic Medical Archive in the Heart of Paris, 1660-1730: Material Technologies and the Medical Community,” Emma C. Spary (University of Cambridge)
• “Surgeons and the Medicalization of Urban Italy: Print and Manuscript Evidence,” Maria Pia Donato (C.N.R.S. / Institut d'Histoire Moderne et Contemporaine, Paris, France)
• “Patho-Physiognomy: The Body of the Artisan as a Site of Disease and Social Identity,” Paola Bertucci (Yale University)
• “Flayed: The Écorché Body in Eighteenth-Century Art and Anatomy,” Marieke Hendriksen (Utrecht University / University of Amsterdam)
• “Artisans of the (Prehistoric) Body: Anatomy, Craft, and the American Incognitum,” Anita Guerrini (Oregon State University)

COMMUNITY TOOLS: CARE, CURA-
TION AND SCIENTIFIC COLLECTIVES

Drift 25, Rm. 301

Moderator: Filippo Bertoni
(Museum für Naturkunde)

Organizer: Jenny Bangham
(University of Cambridge)

• “Killing with Kindness: Adapting to Crisis in Seed Banking Protocols,” Xan Chacko (The University of Queensland)
• “Regulating for a Culture of Care: British Animal Research Legislation in the 1980s,” Dmitriy Myelnikov (Centre for the History of Science, Technology and Medicine, University of Manchester)
• “Communities of Molecular Storytelling: Libraries, Journal Clubs, and Seminars in the Making of Modern Epigenetics,” Tatjana Buklijas (University of Auckland)
• “Curation and Care: Maintaining Community Collections in Drosophila Genetics,” Jenny Bangham (University of Cambridge)
• “Commentary: Community Tools: Care, Curation, and Scientific Collectives,” Filippo Bertoni (Museum für Naturkunde)

DESCARTES, THE TRAÎTÉ DE L’HOMME, AND THE CARTESIANIZING OF DUTCH MEDICINE

Janskerhof 2-3, Rm. 013

Moderator and Organizer: Phillip R. Sloan (University of Notre Dame)
Thursday, 25 July 2019 | 09:00–11:45

- “Medicine, Method, and Metaphysics: Tradition and Innovation in Descartes’ Medical Works from the Writing of L’Homme to Its Posthumous Publications,” Annie Bitbol-Hespériès (Équipe Descartes, Centre d’études cartésiennes, Paris, France)
- “Why the Traité de l’homme Was Not Published by Descartes,” Harold Cook (Brown University)
- “False Images Do Not Lie: Using Anatomy in René Descartes’ Treatise on Man,” Gideon Manning (Independent scholar, Visiting Scholar at Claremont Graduate University)
- “The Overcoming of the Cartesian Paradigm in Physiology: The Case of Burchard de Volder,” Andrea Strazzoni (Independent scholar, guest researcher at the Gotha Research Centre of the University of Erfurt)
- “Commentary: Descartes, the Traité De L’Homme, and the Cartesianizing of Dutch Medicine,” Theo Verbeek (Utrecht University)
- “Visualizing Emotions and the Emotional Economy of Science,” Beatriz Pichel (De Montfort University)
- “When I Saw It, I Began to Scream’: Discovery and Loss in the Visual History of Human Embryology,” Nick Hopwood (HPS, University of Cambridge)
- “Beautiful or Dull? Studying Chromosomes under the Microscope,” Soraya De Chadarevian (University of California Los Angeles)
- “Commentary: Emotions of Observation: Affective Investments in Visualized Research Objects,” Mirjam Brusius (German Historical Institute London)

INTERFIELD THEORIES, METHODS, COLLABORATIONS, AND ORGANIZATION IN HEREDITY: TELLING THE STORIES OF DEVELOPING NEW FIELDS AND CONSOLIDATING DISCIPLINES IN BIOLOGY

Drift 27, Eetkamer

Moderator: Luis Campos (University of New Mexico)
Organizer: Marsha Richmond (Wayne State University)

EMOTIONS OF OBSERVATION: AFFECTIVE INVESTMENTS IN VISUALIZED RESEARCH OBJECTS

Drift 25, Rm. 102

Moderator: Mirjam Brusius (German Historical Institute London)
Organizer: Nick Hopwood (HPS, University of Cambridge)
- “Albums of Emotion: Astronomical Images,” Omar Nasim (University of Regensburg)
- “Successful at Second Attempt: Cross-Disciplinary Collaboration on Flower Pigmentation and the Emergence of Chemical Genetics,” Caterina Schürch (LMU Munich, History of Science)
- “How the Choice of Model Phenomena Matters: Pigmentation and the Conceptualization of Gene Action in Early Genetics,” Robert Meunier (University of Kassel, Germany)
- “New Methods for Old Questions: Sally Hughes-Schrader, Franz Schrader, and Problem-Solving in Cytogenetics,” Marsha Richmond (Wayne State University)
- “Disciplining Genetics: An Analysis of the Fifth International Congress of Genetics in Berlin, 1927,” Ida Stamhuis (Vrije Universiteit Amsterdam)
- “Creating Feed for Meat: The Science of Feeding Animals in Industrial Farms (1954–2019),” Floor Haalboom (Erasmus MC, Rotterdam; Descartes Centre for the History and Philosophy of the Sciences and the Humanities, Utrecht University)
- “Multispecies Choreographies of Animal Experimentation,” Anne Van Veen (Descartes Centre, Utrecht University)
- “Looking at Animals Differently: Posthumanist Performativity as a Tool for Aesthetic Analysis,” Annalena Roters (LMU Munich, Institute of Theatre Studies)

NATURAL AND CULTURAL HISTORIES
Drift 21, Rm. 005
Moderators and Organizers: Fabian Kraemer (History of Science, Ludwig-Maximilians-Universität München, Germany) and Kärin Nickelsen (LMU Munich, History of Science)
- “Nature and Culture in the History of the Earth: F.X. de Burtin’s Catastrophist View of Human Progress, the 1780s,” Mathijs Boom (Universiteit van Amsterdam)
- “Matthias Schleiden’s Theory of History,” Lynn Nyhart (University of Wisconsin-Madison)
- “Botany and the Science of History I (ca. 1800–1900),” Fabian Kraemer (History of Science, Ludwig-Maximilians-Universität München, Germany)
Thursday, 25 July 2019 | 09:00–11:45

- “Botany and the Science of History II (ca. 1800-1900),”
  **Käriin Nickelsen** (LMU Munich, History of Science)
- “Commentary: Natural and Cultural Histories,” **Staffan Müller-Wille** (University of Exeter)

**PACIFIC SCIENCE IN TRANSNATIONAL AND TRANSLOCAL PERSPECTIVE**

*Drift 25, Rm. 206*

**Moderator:** **Hans Pols**
(University of Sydney)

**Organizer:** **Geoff Bil** (New York Botanical Garden)

- “The Collected Letters of Sarah Maria Smythe: Communicating Darwin’s Coral Growth Theory to Belfast Readers, Ten Months in the Fiji Islands (1864),” **Anne Ricculli** (Drew University)
- “Insects and Empire: Entomological Expeditions and Biological Pest Control in Early Twentieth-Century Hawai’i,” **Jessica Wang**
(University of British Columbia)
- “Nationalizing Science in Republican China: The Birth of China’s Policy on Foreign Biological Expeditions,” **Aijie Shi**
(University of Wisconsin-Madison)
- “Cultivating Resistance: Ethnoecology, Anticolonialism, and Indigenous Territoriality in Twentieth-Century Southeast Asia,” **Geoff Bil**
(New York Botanical Garden)
- “Cold War Prevention: The Discourse of Hong Kong Flu and Its Controversies, 1968-1972,” **Xianliang Dong**
(City University of Hong Kong)

**PRACTICAL MATHEMATICS IN EARLY MODERN EUROPE**

*Drift 13, Rm. 003*

**Moderator:** **Margaret Schotte**
(York University, Canada)

**Organizer:** **Thomas Morel**
(Université de Lille)

- “Using Euclid in a Practical Context: Claude Richard’s Course on Sectors at the Imperial College (Madrid, ca. 1656),” **Elena Ausejo**
(University of Zaragoza (Spain))
- “Conceptual Change in Early Modern Practical Geometries,” **Antoni Malet**
(Universitat Pompeu Fabra, Barcelona)
- “Writing, Drawing, and Preaching Geometry in the Early Modern German Mines,” **Thomas Morel**
(Université de Lille)
- “Michael Coignet: A Mathematical Practitioner in 16th Century Antwerp,” **Ad Meskens**
(AP University College, Antwerp)
- “True Solar Motion, Eccentric Parameters, and Clocks as Mathematical Instruments: Tracking Planetary Theory within the Gears of Renaissance Automata,” **Michael Korey**
(Mathematisch-Physikalischer Salon, Staatliche Kunstsammlungen Dresden)
SCIENCE AND RELIGION

Drift 25, Rm. 204

Moderator: Frank James
(University College London and Royal Institution)

- “‘Science is the Antichrist’: Popular Science, Radicalism, and Irreligion in Early Nineteenth-Century Britain,” Eoin Carter (University of Cambridge)
- “Science, Falsely So-Called? Pseudoscience, Anti-Darwinism, and the Science-Religion Debate at the Victoria Institute,” Stuart Mathieson (Queen’s University Belfast)
- “Physics for the Believers: The Translation and Reception of Pascual Jordan’s Forschung Macht Geschichte in Finland in the 1950s,” Ahto Apajalahti (University of Helsinki)
- “Paradigms Old and New Twentieth Century Intersections between Kuhnian Revolutions and the Dutch Catholic Faith,” Michelle Marvin (University of Notre Dame)

THE CO-CONSTRUCTION OF NUCLEAR SCIENCE AND DIPLOMACY

Drift 13, Rm. 004

Moderator: John Krige
(Georgia Tech)

Organizer: Robert Van Leeuwen
(KU Leuven; Belgian Nuclear Research Center SCK•CEN)

- “Secrecy and the Early Dutch-Norwegian Nuclear Collaboration,” Machiel Kleemans (University of Amsterdam)
- “The Early History of the Nuclear Research Center SCK•CEN: Politics, Industry, Scientific Manpower and Nuclear Science in Belgium,” Robert Van Leeuwen (KU Leuven; Belgian Nuclear Research Center SCK•CEN)
- “Science Diplomacy on the Road: The IAEA’s Mobile Laboratory Travels to Greece,” Loukas Freris (National Technical University of Athens)
- “Science Diplomacy and the Epistemologies of Ignorance: The Nuclear Accident of Palomares (Spain, 1966),” Clara Florensa (Center for History of Science. Autonomous University of Barcelona)
- “Neutron Partners: Nuclear Science and Diplomacy at the European Spallation Source,” Thomas Kaiserfeld (Lund University, Sweden)

10:00–10:15

COFFEE BREAK ☕

Drift 21, Hall; Janskerkhof 2-3, Pantry; and Drift 27, Near Library & Courtyard
THE PRESENT AND FUTURE OF THE HISTORY OF SCIENCE SOCIETY’S PUBLICATIONS

Drift 13, Rm. 004

Moderator: **Matthew Lavine** (Mississippi State University)

Speakers:
- **Matthew Lavine** (Mississippi State University)
- **Suman Seth** (Cornell University)
- **H. Floris Cohen** (Utrecht University)
- **Jay Malone** (HSS Executive Director)
- **Stephen Weldon** (University of Oklahoma)

WOMEN’S MENTORSHIP EVENT

Drift 21, Rm. 105

Sponsored by the Graduate and Early Career Caucus

Speakers:
- **Angela N. H. Creager** (Princeton University)
- **Anita Guerrini** (Oregon State University)
- **Alexandra Hui** (Mississippi State University)
- **Sally Gregory Kohlstedt** (University of Minnesota)
- **Anya Zilberstein** (Concordia University, Montreal)

FHHS DISTINGUISHED LECTURE

Drift 27, Eetkamer

Sponsored by the Forum for the History of Human Science

Speaker: **Nelly Oudshoorn** (University of Twente)

ANTI-PSYCHIATRY, DEINSTITUTIONALIZATION, AND COMMUNITY MENTAL HEALTH

Drift 21, Rm. 005

Moderator and Organizer: **Hans Pols** (University of Sydney)

- “The Global Impact of Franco Basaglia and the Italian Radical Psychiatry Movement,” **John Foot** (University of Bristol)
- “Despite the Asylum, Not Instead of It’: Community Psychiatry in West Germany (1960-1980),” **Chantal Marazia** (Heinrich Heine University Düsseldorf, Germany)
- “Deinstitutionalization: The Dutch way?” **Joost Vjselaar** (Descartes Centre, Utrecht University)
- “On Being Sane in Insane Australian Places: Robin Winkler’s Pseudo-Patient Experiments,” **Hans Pols** (University of Sydney)
ART, SCIENCE, AND MEDICINE INSIDE AND OUTSIDE THE PARIS ACADEMY OF SCIENCES DURING THE OLD REGIME

Drift 13, Rm. 003

Moderator: Nicholas Dew (McGill University)
Organizer: Oded Rabinovitch (Tel Aviv University)

• “Image-Making Inside and Outside the Academy: The Artists of the Paris Academy of Sciences,” Katherine Reinhart (University of Cambridge)
• “Mathematical Skills and Household Service in the Career of Sébastien Le Clerc,” Oded Rabinovitch (Tel Aviv University)
• “The French State and “Useful” Medical Knowledge: The Clinical Judgment of Guy-Crescent Fagon, Royal Physician to Louis XIV,” Justin Rivest (University of Cambridge)
• “The Amateur’s Gaze vs. the “Learned” Eye: Theorizing Natural History Collections in the Second Half of the 18th Century,” Rossella Baldi (SIK-ISEA Zurich)

ARTICULATIONS AND DISARTICULATIONS: TRANSLATION, MEDICINE, AND KNOWLEDGE IN THE PREMODERN WORLD, SESSION I

Drift 13, Rm. 004

Moderator: Alisha Rankin (Tufts University)
Organizers: Sietske Fransen (Bibliotheca Hertziana, Max Planck Institute for History of Art), Elaine Leong (University College London), and Ahmed Ragab (Harvard University)

• “Female Authority in Translation: Medieval Catalan Texts on Women’s Health,” Montserrat Cabré (University of Cantabria, Spain)
• “Translation and the Making of a Scientific Archive: The Case of the Islamic ‘Translation Movement,’” Ahmed Ragab (Harvard University)
• “Translating, Printing, and Reading the Art of Distillation,” Elaine Leong (University College London)
• “Commentary: Articulations and Disarticulations: Translation, Medicine, and Knowledge in the Premodern World, Session I,” Sven Dupré (Utrecht University / University of Amsterdam)

DIGITAL HUMANITIES AND THE HISTORY OF SCIENCE

Drift 27, Rm. 032

Moderator: Joris Mercelis (Johns Hopkins University)

• “The Modeling of Alchemical Decknamen: On the Potential of Digital Representation for Deepening Understanding in the Humanities,” Sarah Lang (Centre for Information Modelling (ZIM) of Karl-Franzens-Universität Graz)
• “Text Mining and the Conceptual History of the ‘Republic of Letters’” Karen Hollewandel (Utrecht University)
Thursday, 25 July 2019 | 13:30–15:30

- “Text-Mining Early Modern Collective Lives of Scholars for Scholarly Virtues,” Koen Scholten (Utrecht University)

EXPERIMENTAL SPACES
Drift 25, Rm. 302
Moderator: Antoine Leveque (Norwalk Community College)
- “Science Parks and Instant Villages: Postmodernism and British Telecom in Thatcher’s Britain,” Jacob Ward (University of Oxford)
- “Tuning the Workplace: The Herman Miller Research Corporation and the Architectonics of Information,” Joeri Bruyninckx (Society Studies, Maastricht University)
- “Culture, Trauma, and Confinement: The Making of Psychiatric Knowledge in Refugee Camps,” Baher Ibrahim (University of Glasgow)

MATTERS ABOVE AND BELOW: NATURAL PHILOSOPHY AND NATURAL HISTORY IN THE EIGHTEENTH CENTURY
Janskerhof 2-3, Rm. 013
Moderator: Anna Marie Roos (University of Lincoln, UK)
Organizer: Victor Boantza (University of Minnesota)
- “Edward Lhwyd’s 1699 Lithophylacii Britannicii Ichnographia [British Figured Stones]: Old and New Classifications,” Anna Marie Roos (University of Lincoln, UK)
- “Fluid Cosmologies, Pneumatics, and Atmospheric Studies in the Early Eighteenth Century,” Victor Boantza (University of Minnesota)
- “A Place for Human Inquiry”: Lomonosov’s Mineral Science,” Anna Graber (Program in the History of Science, Technology, and Medicine, University of Minnesota)
• “Classification and Gentlemanly Capital: Thomas Pennant and British Zoology, 1766-1812,” Edwin Rose (University of Cambridge)

OBJECTS AND METHODS BETWEEN THE SCIENCES AND THE HUMANITIES

Drift 25, Rm. 102

Moderator: Julia Kursell (University of Amsterdam)

Organizers: Sjang Ten Hagen (University of Amsterdam)

• “Fact-Checking Herodotus across the Disciplines,” Suzanne Marchand (Louisiana State University)

• “Training Physicists and Historians in Mid-Nineteenth-Century Berlin: Exercises and Epistemic Virtues,” Sjang Ten Hagen (University of Amsterdam)

• “Scientific Archaeology: Materially Linking Humanities and Sciences since 1880,” Josephine Musil-Gutsch (Ludwig-Maximilians-Universitaet Munich)

• “Commentary: Objects and Methods between the Sciences and the Humanities,” Kasper Risbjerg Eskildsen (Roskilde University)

PHYSICAL SCIENCES IN THE TWENTIETH CENTURY

Drift 27, Eetkamer

Moderator: Maria Rentetzi (National Technical University of Athens)

• “The Schenberg’s Work and the Beginning of Physics Research in Brazil: Political Context, Institutional Projects, and Dynamics of Knowledge Production,” Ivá Gurgel (University of São Paulo)

• “The Scientific ‘Centrality’ of a ‘Peripheral’ Laboratory: The University of Coimbra Experimental Phonetics Laboratory (1936-72),” Quintino Lopes (Institute for Contemporary History [New University of Lisbon; University of Évora])

• “Science Diplomats: A Hybrid Role in the History of the Greek Nuclear Program,” Myrto Dimitrokali (National Technical University of Athens)

• “History of the Earth System Sciences in the Max Planck Society,” Gregor Lax (Max-Planck-Institute for the History of Science)

SCIENCE IN RUSSIA AND THE SOVIET UNION

Drift 25, Rm. 206

Moderator: Anna Amramina (University of Minnesota)

• “Symbol and Knowledge: ‘Absolute Infinity’ in Georg Kantor and Pavel Florensky,” Tatiana Levina (Higher School of Economics (National Research University))

• “Late Imperial Russian Ethnography and Russo-American Knowledge Exchange,” Ekaterina Morgunova (King’s College London)
“Clandestine Revival of Prague Linguistic Circle in Prague, 1945-1968,” Helena Durnova (Masaryk University, Brno)


THE GLOBAL CONSTRUCTION OF THE HEAVENS. WORLDWIDE ASTRONOMICAL NETWORKS, LOCAL INSTITUTIONS

Drift 25, Rm. 204

Moderator: Carlos Sanhueza-Cerda (Universidad de Chie)
Organizer: Lorena B. Valderrama (University Alberto Hurtado)

“Predictions of the End of the World: Circulation of Astronomical Knowledge in Chilean Cultural Magazines from a Global-Local Perspective (1890-1920),” Veronica Ramirez Errazuriz (Universidad Adolfo Ibañez, Chile/ FONDECYT Chile)

“Looking for a Point of Observation in the South of the World: Global Astronomical Networks in the Nineteenth Century,” Carlos Sanhueza-Cerda (Universidad de Chie)

“Photographing The Sky: Female Work in Astronomical Observatories,” Lorena B. Valderrama (University Alberto Hurtado)

VISIONS OF THE FUTURE

Drift 25, Rm. 105

Moderator: Gerard Alberts (University of Amsterdam)


“Science Fiction Meets Reality: Hannes Alfvén’s 1966 Vision of Future Computers,” Rita Meyer-Spasche (Max-Planck-Institute for Plasma Physics, Garching near Munich)

“A Variety of Futurologists: “Feminist” Speculative Fictions in the Wake of the Pill,” Jiemin Tina Wei (Harvard University, History of Science)

“Between “Ethics and Embryos”: Reading Assisted Reproductive Technology as Material Fiction,” Angela Yu (University of Oxford)

THATCAMP (THE HUMANITIES AND TECHNOLOGY CAMP)

Drift 21, Rm. 105

COFFEE BREAK ☕

Drift 21, Hall; Janskerkhof 2-3, Pantry; and Drift 27, Near Library & Courtyard
ARTICULATIONS AND DISARTICULATIONS: TRANSLATION, MEDICINE, AND KNOWLEDGE IN THE PREMODOERN WORLD, SESSION II

Drift 13, Rm. 004

Moderator: Projit Bihari Mukharji (University of Pennsylvania)

Organizers: Sietske Fransen (Bibliotheca Hertziana, Max Planck Institute for History of Art), Elaine Leong (University College London), and Ahmed Ragab (Harvard University)

- “Reconstructing the Medical Canon: Seventeenth-Century English Physicians and Their Notebooks,” Sietske Fransen (Bibliotheca Hertziana, Max Planck Institute for History of Art)
- “The Urge to Gloss: Multilingualism in the Making of Tibb,” Shireen Hamza (Harvard University, History of Science)
- “Nature in Rubrics: The Role of Taxonomies in Translating Arabo-Persian Physiology in Late Imperial China,” Dror Weil (Max Planck Institute for the History of Science, Berlin)

AT THE CROSSROADS OF THE SENSES: HUMAN SCIENCES AND THEIR MATERIAL CULTURES CA. 1900

Drift 25, Rm. 105

Moderator: John Tresch (Warburg Institute, University of London)

Organizer: Cameron Brinitzer (History & Sociology of Science, University of Pennsylvania)

- “Between the Lab, Field, and Garden: Experimental Psychology and Ethnology ca. 1900,” Cameron Brinitzer (History & Sociology of Science, University of Pennsylvania)
- “The Use of Sensory Stimuli in Linguistic Fieldwork,” Judith Kaplan (University of Pennsylvania)
- “It’s Very Difficult to Sing a Daisy: Adventures in Aesthetics and Experimental Phonetics at the Turn of the Century,” Michael Rossi (University of Chicago)
- “Tracing the Zigzags of Early Anthropology,” Laurel Waycott (Yale University)

COLONIAL SCIENCE

Drift 21, Rm. 005

Moderator: Matthew Franco (College of William and Mary)

Thursday, 25 July 2019 | 16:00–18:00

- “Connection and Disconnection in the Global Scientific Imagining of the Himalaya,” Lachlan Fleetwood (University of Cambridge)
- “Scorpion Suicide: Experiments and Anecdotes in Colonial England (and beyond),” Evan Arnet (Indiana University - Bloomington)

CULTIVATING KNOWLEDGE

Drift 25, Rm. 204

Moderator: Anya Zilberstein (Concordia University, Montreal)

- “‘The Easy Transmutableness of Water’: The Alchemy of Seed Steeps and ‘Fructifying Waters’ in Seventeenth-Century English Agriculture,” Justin Niermeier-Dohoney (University of Chicago)
- “Cochineal Husbandry in Eighteenth-Century Mexico and India,” Deirdre Moore (Harvard University)
- “Materiality in the Wild: A Posthumanist Approach to Indigenous Knowledge of West African Wild Silk,” Laurence Douny (Research Associate, Humboldt University, Berlin)
- “The Species Transmutation Debate and Agricultural Science in the Antebellum United States, 1820-1859,” Anahita Rouyan (Independent researcher & consultant)

EARLY MODERN ASTRONOMIES AND COSMOLOGIES

Drift 27, Rm. 032

Moderator: Stephen Case (Olivet Nazarene University)

- “Discussing the Legitimacy of Astrology with Inquisitors: Non-Scholar Witnesses on Free Will and University Lectures in Seventeenth Century Trials,” Tayra Lanuza-Navarro (Universitat de València)
- “Tycho Brahe and the Inquisition in Iberia,” Luis Tirapicos (Centro Interuniversitário de História das Ciências e da Tecnologia, Faculdade de Ciências, Universidade de Lisboa)

MEDICINE IN THE EIGHTEENTH AND NINETEENTH CENTURIES

Drift 25, Rm. 302

Moderator: Ian Davis (Universidade de Coimbra)

- “The Smell of the Sick: Odor in Eighteenth-Century French Medicine,” Abigail Fields (Yale University)
- “Involuntary Motion and the Origins of Aesthetic Experience, 1700-1750,” Alexander Wragge-Morley (New York University)
• “Politics in the Bedroom: Paolo Mantegazza and the Rise of Sexual Medicine in Post Unified Italy (1861-1900),” Cristiano Turbil (University College London (UCL), UK)

• “The Alienisation of Childhood and Adolescence in France and Scotland, 1870-1914,” Axelle Champion (University of Edinburgh)

• “The Delayed Arrival of the Future: The Case of General Mills’ Bontrae in Cold War America,” Nadia Berenstein (Independent scholar)

• “Can Space Age Cultural History Help Save the Future,” Peter Kleeman (UMass Amherst / Space Age Museum / Smithsonian National Air and Space Museum)

• “History as a Policy Tool: Re-Envisioning How the Historian Might Bring Historical Thinking into Legislative Decisions,” Emily T. Hamilton (University of Massachusetts, Amherst)

• “Commentary: Past, Present, and Future: Science Studies and the Historian’s Role in Contemplating the Future,” Luis Campos (University of New Mexico)

PSYCHOLOGICAL DEBATES

Drift 25, Rm. 301

Moderator and Organizer: John Carson (University of Michigan)

- “Medicalizing Religion: Christian Science as a Historical Cause of Madness,” Alexandra Prince (University at Buffalo SUNY)
- “Psychiatry in Indian Traditional Medicine?,” Madhusudan Rimal (University of Alberta)
- “Standing with Science: Ideology and Advocacy for Developmental Disabilities after 1980,” Andrew Hogan (History, Creighton University)

RESHAPING NATURE: ATOMIC AGRICULTURE IN THE COLD WAR ERA

Drift 27, Eetkamer

Moderator: Tiago Saraiva (Drexel University)

Organizer: Francesco Cassata (University of Genoa (Italy))

- “Atomic Spaghetti’: Nuclear Energy and Agriculture in Italy, 1950s-1970s,” Francesco Cassata (University of Genoa (Italy))
- “Artificial Evolution: Åke Gustafsson and the Development of Mutation Breeding,” Anna Tunlid (Lund University, Sweden)
Science and Medicine in the Twentieth Century
Drift 25, Rm. 303
Moderator: Olival Freire
(UFBA - Brazil)

- “Relocating the Neurosciences and Decentering Euro-America: The Ibadan Neurosurgery Clinic and The Evolution of Antiracist-Decolonized Neuro-Oncology and Egalitarian Styles of Thinking on Intracranial Neoplasms in Africa and the United States,” Frank Blibo (Department of the History of Science, Harvard University)
- “Substitute Materials during the Twentieth Century,” Matthew Paskins (LSE)
- “The Categorisation of Hearing Loss through Telephony in Inter-War Britain,” Coreen McGuire (University of Bristol)

Sonic Imperium: Sound and the State in the Twentieth Century
Drift 25, Rm. 102
Organizer: J. Martin Vest
(University of Michigan)

- “Flying Caps and Throat Microphones: Solving the Problems of Aviation Communication in World War One,” Elizabeth Bruton (Science Museum Group)
- “Huxley’s Loudspeaker: Dystopian Sounds of Control during the Cold War,” Alexandra Hui (Mississippi State University)
- “Commentary: Sonic Imperium: Sound and the State in the Twentieth Century,” Graeme Gooday (University of Leeds)

Transmitting Knowledge in Chinese and Arabic Contexts
Drift 25, Rm. 206
Moderator: Sarah Lang (Centre for Information Modelling (ZIM) of Karl-Franzens-Universität Graz)

- “Commentary as an Epistemic Genre: Making and Transmitting Knowledge in 15th ca. Islamic Astronomy,” Scott Trigg (Society of Fellows in the Humanities, University of Hong Kong)
• “From Scientific Understanding to Ideological Fantasy: Chinese Image of Arabic Astronomy in the 16th to 17th Centuries,” Yunli Shi (History of Science and Scientific Archaeology, University of Science and Technology of China)

• “A Science without Nature in China: Heaven (Tian), Morality, and Darwinian Competition from 1890 to 1923,” Sean Hsiang-Lin Lei (Institute of Modern History, Academia Sinica, TAIWAN and Institute of Science, Technology and Society, Yangming University.)

• “Knowing the World’s Past and Future: H. G. Wells’s ‘The Outline of History’ and Its Reception in Interwar China,” Hsiang-Fu Huang (University College London)

HSS PRIZE CEREMONY

Dom Church, Domplein

Come and support the best scholarship in the history of science.

Moderator: Jan Golinski (University of New Hampshire)

Honors and awards to be recognized:

• Derek Price/Rod Webster Prize
• Distinguished Lecture
• Elizabeth Paris Lecture
• HSS/NASA Fellowship
• Joseph H. Hazen Education Prize
• Margaret W. Rossiter Prize
• Nathan Reingold Prize
• Pfizer Award
• Philip J. Pauly Prize
• Ronald Rainger Prize
• Sarton Medal
• Watson Davis and Helen Miles Davis Prize

Learn more about the History of Science Society’s prizes and awards at hssonline.org/about/honors/
Abstract: What are the narratives that guide the history of science? For sure one of the more recent ones was “science in action,” the emphasis on practices and the imperative on studying science as performed. Perhaps not surprisingly, this story has itself a history, which starts in the early 1960s, when the project “Sources for History of Quantum Physics” was established. The main task of Thomas Kuhn’s, John Heilbron’s and Paul Forman’s work, lasting three years, was to interview old heroes of Quantum Mechanics and to archive the spoken word. While giving an account of the project’s history, this talk will focus on analyzing the process of interviewing and characterize its wider context. Not only does their approach offer us important insights into the shaping of the persona of the scientist, it also presents an important step towards the post-Kuhnian way of doing history of science.
Friday, 26 July 2019

07:30–09:00

WOMEN’S CAUCUS BREAKFAST
Drift 27, Eetkamer
Hosted by the HSS Women’s Caucus
Sponsored by the Linda Hall Library

09:00–09:45

GRADUATE AND EARLY CAREER CAUCUS BUSINESS MEETING
Drift 21, Rm. 105

09:00–11:45

BOURBAKI RECONSIDERED: ORIGINS, OPERATIONS, AND LEGACIES
Drift 21, Rm. 005
Sponsored by the Forum on the History of Mathematical Sciences
Moderator: Michael Barany
(University of Edinburgh)
Speakers:
• Michael Barany (University of Edinburgh)
• David Aubin (Sorbonne Université)
• Anne-Sandrine Paumier (Chercheur Associé Centre François Viète, Nantes)
• Leo Corry (Tel Aviv University)
• Natalie Berkman (SAE Institute Paris)
• Christophe Eckes (Archives Henri-Poincaré)
• Gatien Ricotier (University of Strasbourg)

CLASSIFICATIONS AND CATEGORIES IN THE EARLY SCIENCES
Drift 25, Rm. 102
Sponsored by the Early Science Forum
Moderator: Hannah Marcus
(Harvard University)
Organizers: Anne-Laurence Caudano
(University of Winnipeg) and
Hannah Marcus (Harvard University)
• “Aristotle’s Rivals: Early Categorialism in Ancient Greek Philosophy,” Andrew Hull
(Northwestern University)
(Max Planck Institute for the History of Science (Berlin))
• “Zoology of Mixing: Discourses of Race and Species in Early Modern Europe,” Mackenzie Cooley
(Hamilton College)
• “The Importance of Well-Proportioned Wholes: From Archytas’ Division of Mathematics to Ptolemy’s All-Encompassing Philosophy,” Anne-Laurence Caudano
(University of Winnipeg)
• Panel Discussion: “Classifications and Categories in the Early Sciences,”
**COSMIC STORIES: ASTROPHYSICS AND THE INVENTION OF COSMOLOGY IN THE EARLY 20TH-CENTURY**

*Drift 13, Rm. 003*

Co-Sponsored by the HSS Physical Sciences Forum and the IUHPST/DHST Commission on the History of Physics

Moderator: **Matthew Shindell**  
(Smithsonian National Air and Space Museum)

Organizer: **Scott Walter**  
(University of Nantes)

- “The Great Correlation Era in Astronomy,” **David Devorkin**
- “Stargas Models of the Universe and the Rise of Statistical Astronomy,” **Scott Walter** (University of Nantes)
- “Trial and Error in Astronomy: Arthur S. Eddington’s Stellar Models,” **Florian Laguens** (IPC-Facultés Libres de Philosophie et de Psychologie, Paris, France)
- “Precision and Exactitude in the Analysis of Stellar Spectra: How Conviction and Circumstance Shaped Anton Pannekoek’s Scientific Persona and Practice,” **Chaokang Tai** (University of Amsterdam)
- “Commentary: Cosmic Stories: Astrophysics and the Invention of Cosmology in the Early 20th-Century,” **Robert Smith** (University of Alberta)

---

**FORUM FOR THE HISTORY OF HEALTH, MEDICINE AND THE LIFE SCIENCES**

*Drift 25, Rm. 204*

Business Meeting & Roundtable

**INTOXICATING HISTORIES: CHEMICALS AND THE ALTERED BODY IN THE 19TH AND 20TH CENTURIES**

*Drift 25, Rm. 302*

Sponsored by the Forum on the History of the Chemical Sciences

Moderator: **Nadia Berenstein**  
(Independent scholar)

Organizer: **Theresa Levitt**  
(University of Mississippi)

- “Lead Poisoning in France around 1840: Criminal Justice, Industrial Poisoning, and the Making of Ignorance,” **José Ramón Bertomeu-Sánchez** (López Piñero Inter-university Institute, University of Valencia)
- “Morphine Dreams: Auguste Laurent and the Active Principles of Organized Matter,” **Theresa Levitt** (University of Mississippi)
- “The Synthetic and the Natural in Chemical Control in the United States and Europe,” **Lucas Mueller** (Université de Genève)
- “The Synthetic Illness: Mescaline Intoxication and Schizophrenia, ca. 1920-50,” **Jelena Martinovic** (University College London (UCL), UK)
NEW DIRECTIONS IN THE HISTORY OF SCIENCE AND SCIENCE EDUCATION

Drift 13, Rm. 004

Sponsored by the Committee on Education and Engagement

Moderator: **Megan Raby**
(University of Texas at Austin)

Speakers:

- **Megan Raby** (University of Texas at Austin)
- **Lloyd Ackert** (Department of History, Drexel University)
- **Allison Marsh** (University of South Carolina)
- **Adam Shapiro**
- **Andreia Guerra de Moraes**
(Institutions Celso Suckow Federal Center for Technological Education)

SCIENCE AND ITS LOCAL READERS IN BRITISH INDIA

Drift 27, Rm. 032

Sponsored by the Forum for the History of Science in Asia

Moderator: **Minakshi Menon**
(Max Plank Institute for the History of Science, Berlin)

Organizer: Sarah Qidwai
(University of Toronto)

- “Translating Science: Sayyid Ahmad Khan’s Scientific Discourse in Print,” **Sarah Qidwai**
(University of Toronto)
- “Printing Science in the Princely Hyderabad: Nawab Fakhruddin Khan Shamsul Umara’s Epistemological Interventions,” **Muhammed Ashraf Thirisseri**
(University of Hyderabad)
- “Vigyan, Scientific Readerships, and the Colonial Lives of Science Popularization in North India, ca. 1915,” **Charu Singh**
(Adrian Research Fellow, Darwin College, University of Cambridge)
- “Itibritto’ and ‘Upokarita’: Tracking a Historically Conscious Narration of Chemistry in Nineteenth Century Bengali Periodicals,” **Shhira Bhattacharya**
(Centre for English Studies, Jawaharlal Nehru University, New Delhi)
- “Commentary: Science and Its Local Readers in British India,” **Minakshi Menon**
(Max Plank Institute for the History of Science, Berlin)

SCIENTIFIC CULTURES IN AFRICA

Drift 25, Rm. 105

Moderator: **Morgan Robinson**
(Mississippi State University)

Organizer: **Jules Skotnes-Brown**
(University of Cambridge)

- “Colonial Science and Local Knowledge: Environmental Sleeping Sickness Control in East Africa, 1900-1920,” **Sarah Ehlers**
(Technical University of Munich)
• “Starving Flies, Exterminating Animals: The Game-Nagana Link, the Great Game Drive, and the Dynamism of ‘Zulu Knowledge’, ca. 1890s-1920s,” Jules Skotnes-Brown (University of Cambridge)

• “Medical Mapping, Burkitt’s Lymphoma, and the East African Virus Research Institute, 1962-1979,” Julia Cummiskey (University of Tennessee-Chatanooga)

• “A Standardized Vernacular or a Vernacular Standard? The Position of Swahili in the Early Twentieth Century,” Morgan Robinson (Mississippi State University)


• “Between Harmony and E-Harmony: Sexual Minima and Utopian Matching in Fourier’s ‘Calculus of Passions,’” Hansun Hsiung (Max Planck Institute for the History of Science / Durham University)

• “Animals as Evolutionary Models of Human Sexuality in the Late 20th Century,” Erika Milam (Princeton University)


• “Commentary: The Epistemology of the ‘Match’,” Dan Bouk (Colgate University)

THE EPISTEMOLOGY OF THE “MATCH”

Janskerhof 2-3, Rm. 013

Sponsored by the Forum for the History of the Human Sciences

Moderator: Dan Bouk (Colgate University)

Organizers: Hansun Hsiung (Max Planck Institute for the History of Science / Durham University) and Elena Serrano (Max Planck Institute for the History of Science, Berlin)

• “Cranial Compatibility: Phrenology, Measurement, and Marriage Assessment,” Carla Bittel (Loyola Marymount University)

TACIT KNOWLEDGE EVENT:
ACADEMIC INTERNATIONALISMS

Drift 21, Rm. 105

Sponsored by the Graduate and Early Career Caucus

Speakers:

• Projit Bihari Mukharji (University of Pennsylvania)

• Lisa Onaga (Max Planck Institute for the History of Science)

• Willemijn Ruberg (Utrecht University)

• James Secord (HPS, University of Cambridge)
10:00–10:15

**COFFEE BREAK** ☕️

_Drift 21, Hall; Janskerkhof 2-3, Pantry; and Drift 27, Near Library & Courtyard_

10:00–11:00

**TECHNOLOGY AND COMMUNICATION COMMITTEE MEETING**

_Drift 25, Rm. 103_

11:00–11:45

**EARTH AND ENVIRONMENT FORUM**

_Drift 25, Rm. 206_

11:45–12:15

**FORUM FOR THE HISTORY OF THE CHEMICAL SCIENCES BUSINESS MEETING**

_Drift 25, Rm. 101_

12:00–13:00

**COLLECTIONS, ARCHIVES, LIBRARIES, AND MUSEUMS (CALM) CAUCUS: ORGANIZATIONAL MEETING**

_Drift 21, Rm. 005_

---

**BEYOND THE SHADOW OF THE TELESCOPE: RECONTEXTUALIZING JOHN HERSCHEL**

_Janskerhof 2-3, Rm. 013_

Moderator: **Omar Nasim** (University of Regensburg)

Speakers:
- **Stephen Case** (Olivet Nazarene University)
- **Charles Pence** (Université Catholique de Louvain)
- **Kelley Wilder** (Photographic History Research Centre, De Montfort University)
- **Gregory Good** (American Institute of Physics)
- **James Secord** (HPS, University of Cambridge)

---

**INFORMATION SESSION: PUBLISHING OPPORTUNITIES IN THE HISTORY OF BIOLOGY AND LIFE SCIENCES**

_Drift 27, Eetkamer_

Speakers:
- **Karen Rader** (Virginia Commonwealth University)
- **Marsha Richmond** (Wayne State University)
- **Lisa Onaga** (Max Planck Institute for the History of Science)
POLITICS AND METHODOLOGY BETWEEN SCIENCE STUDIES, LGBTQ+ STUDIES, AND “AREA” STUDIES

Drift 25, Rm. 102

Moderator: **Erika Milam** (Princeton University)

Speakers:
- **Heidi Voskuhl** (University of Pennsylvania)
- **Rebecca Epstein-Levi** (Vanderbilt University)
- **Howard Chiang** (University of California, Davis)
- **Stephanie Dick** (University of Pennsylvania)

12:00–13:15

PHYSICAL SCIENCES FORUM DISTINGUISHED LECTURE

Drift 13, Rm. 004

Sponsored by the Physical Sciences Forum

Speaker: **Helge Kragh** (Aarhus University)

FORUM FOR THE HISTORY OF SCIENCE IN ASIA

Drift 27, Rm. 032

Business Meeting

13:30–15:30

CORRESPONDENCE NETWORKS: EXPLORING SPACE, CLASS AND GENDER THROUGH THE MATERIAL OBJECT

Drift 13, Rm. 004

Moderator: **Janet Browne** (Harvard University)

Organizer: **Laura Brassington** (University of Cambridge)

- “Off Alone on My Tramps’: Correspondence Networks of Women Botanists in the U.S. Frontier West,” **Tina Gianquitto** (Colorado School of Mines)
- “Materials of the Mind: Phrenology, Correspondence, and the Global History of Science, 1815-1920,” **James Poskett** (University of Warwick)
- “The Politics of Botanical Objecthood in Nineteenth Century Correspondence Networks,” **Elaine Ayers** (New York University)
- “Trespassing Tigresses and “Pig-Headed Celts”: Corresponding beyond Class Boundaries, from Scotland to Calcutta,” **Laura Brassington** (University of Cambridge)

DEFYING DEATH, IMPROVING THE BODY, AND THE EARLY MODERN QUEST FOR LONGEVITY

Drift 21, Rm. 005

Moderator: **Lauren Kassell** (Department of History and Philosophy of Science, University of Cambridge)
Organizers: Vitus Huber (Ecole des Hautes Etudes en Sciences Sociales, Paris) and Hannah Marcus (Harvard University)

- “Sobriety, Longevity, and Readers’ Responses to Alvise Cornaro’s Discorsi della vita sobria,” Hannah Marcus (Harvard University)
- “Continuity and Change in the Italian Regimen, 1650-1800,” Tessa Storey (Independent Historian)
- “Early Modern Longevity and the Poetics of Extended Experience,” Natalie Kaoukji (HPS, University of Cambridge)

GLOBAL HISTORIES OF SOCIALIST SCIENCE AND MEDICINE

Drift 13, Rm. 003
Moderator: Heidi Tworek (University of British Columbia)
Organizer: Vedran Duancic (Croatian Academy of Sciences and Arts)

- “Transplanting Technology: Dr. DeBakey in Cold War China and the USSR,” Heidi Morefield (Johns Hopkins University / Princeton University)
- “Technical Assistance and Socialist International Health,” Dora Vargha (University of Exeter)
- “Cold Spring Harbor Laboratory–Sarajevo–Moscow: An Unlikely Network in the Fight against Lysenkoism in Yugoslavia,” Vedran Duancic (Croatian Academy of Sciences and Arts)
- Panel Discussion: “Commentary: Global Histories of Social Science and Medicine”

EARLY MODERN BODIES

Drift 25, Rm. 102

- “Personas and Personifications: Galileo Compared,” Anna-Luna Post (Universiteit Utrecht)
- “Textures of Anatomy: Images and Practice at the University of Padua in the Seventeenth Century,” Megan Baumhammer (Princeton University)
- “Prodigious Abstinence and Nervous Consumption: Tracing Medical Discourses of Female (In)Digestion, 1651-1694,” Els Woudstra (Rice University)
- “Collecting Anatomy and Making Knowledge about Disease at Great Windmill Street: Matthew Baillie’s Morbid Anatomy,” Richard Bellis (University of Leeds)

MAPPING

Drift 27, Rm. 032
Moderator: Meira Gold (HPS, University of Cambridge)
Organizer: Anne Secord (Darwin Correspondence Project)
• “A Selenography in New Spain: Colonial Strategies for Mapping Local Knowledge,” Nydia Pineda De Avila (Universidad Nacional Autónoma de México)

• “What Do Maps Map? Finding the Way in Early Nineteenth-Century British Botany,” Anne Secord (Darwin Correspondence Project)

• “Turning Meteorological Data into Climate Science: Maps, Diagrams and Formulas in Germany, 1871-1914,” Robert-Jan Wille (Descartes Centre / Political History, Utrecht University)

• “Commentary: Mapping,” Megan Barford (National Maritime Museum, Greenwich, UK)

PERIODICALS AND PUBLICATIONS

Drift 25, Rm. 301

Moderator: Alex Csiszar (Harvard University)

• “Science Reigns Supreme: Conceptualising Public Science in the Illustrated London News,” Chi Chi Huang (History Department, University of Hong Kong)

• “Colourless Writings of Statisticians and Their Distant Readers: Creating a New Mode of Reading in the Journal of the Statistical Society of London, 1838-1858,” Yasuhiro Okazawa (Kyoto University)

• “Dedications in Early Modern Scientific Books,” Rienk Vermij (University of Oklahoma)

PSYCHOLOGY IN THE NINETEENTH AND TWENTIETH CENTURIES

Drift 25, Rm. 303

Moderator: Luke Stark (New York University)

• “Narrative and the Textual Configuration of Cases in Late Nineteenth-Century Psychology,” Kim Hajek (LSE)
• “Measuring the Mind: Replication in Early Psychological Experimentation (1890-1925),” Annette Mulberger (CEHIC-Universitat Autonoma de Barcelona)


Science in the Nineteenth Century

Drift 25, Rm. 206

Moderator: Michael Osborne (Oregon State University)

• “Anthropology, Peyote-Eaters, and the Shifting Morals of Intoxication (1880-1919),” Adam Johnson (University of Michigan)

• “‘More French Than the French’: John Herschel and Musical Standardization in Nineteenth-Century France and Britain,” Edward Gillin (University of Cambridge)

• “Interglacial Victorians: Ice and the Natural End of Time,” Alexis Rider (History and Sociology of Science, University of Pennsylvania)

• “Experimental Abstraction: Francis Galton, John Venn, and Cambridge Anthropometry, 1887-1891,” Lukas M. Verburgt (Utrecht University)

Science, Universal History, and the Future

Drift 25, Rm. 204

Moderator: Jim Fleming (Colby College)

Organizer: Emily Kern (University of New South Wales, Sydney)

• “Missing Link: Nikolai Vavilov’s Genogeography and History’s Past Future,” Elena Aronova (University of California, Santa Barbara)

• “Measuring Instruments” for Language History: Rhetoric and Reality of a Nineteenth-Century Latinist,” Christian Flow (Mississippi State University)

• “Paleoanthropological Futures and Historical Pasts: Human Origins and Rewriting the Place of Africa in World History,” Emily Kern (University of New South Wales, Sydney)

• “Commentary: Science, Universal History, and the Future,” Jim Fleming (Colby College)

Untelling Expeditions

Janskerhof 2-3, Rm. 013

Moderator: Dorit Brixius (Institut historique allemand Paris)

Organizer: Daniel Midena (The University of Queensland)

• “An Ethnographical Museum of Living Specimens: Retelling the Social and Scientific Life of the Schlaginwetit Expeditions in Asia in the Mid-1850s,” Moritz Von Brescius (University of Bern)
• “Enacting Race While Objectifying Race: Recovering the Story of the Dutch New Guinea Expeditions (1903, 1909) for the History of Anthropometry,” Geertje Mak (University of Amsterdam)
• “Scientific Facts and Alternative Facts: The Detzner Affair and Fieldwork after Empire,” Daniel Midena (The University of Queensland)

THATCAMP (THE HUMANITIES AND TECHNOLOGY CAMP)

Drift 21, Rm. 105

13:30–18:00

HSS COMMITTEE ON EDUCATION AND ENGAGEMENT ANNUAL MEETING

Drift 25, Rm. 103

15:00–16:00

COFFEE BREAK ☕️

Drift 21, Hall; Janskerkhof 2-3, Pantry; and Drift 27, Near Library & Courtyard

15:30–16:00

16:00–18:00

BEING SCIENTIFIC IN THE 1970S: SCIENCE AND SOCIAL RESPONSIBILITY IN A SHIFTING WORLD

Drift 21, Rm. 005

Moderators: Jamie Cohen-Cole (George Washington University) and Egle Rindzeviciute (Kingston University, London)

Organizer: Paul Rubinson (Bridgewater State University)
• “Consent Decrees, Public Knowledge, and Empiricist Constructivism: Revisiting Lost Perspectives on Science and Democracy in the Global 1970s,” Sarah Bridger (California Polytechnic State University)
• “‘Development’ and Disarmament: The Twin Track of Pugwash in the Early 1970s,” Alison Kraft (Freelance writer)
• “Mistress of the Sciences, Asylum of Liberty: Science, Human Rights, and Freedom from the 1790s to the 1970s,” Paul Rubinson (Bridgewater State University)
• “Commentary: Being Scientific in the 1970s: Science and Social Responsibility in a Shifting World,” Egle Rindzeviciute (Kingston University, London)

ENVIRONMENTAL HISTORIES

Drift 13, Rm. 003

Moderator: Helen Anne Curry (University of Cambridge)
• “Meeting Nature Halfway: Georg Forster, Mining, and Aesthetics of Artifice, 1784,” Patrick Anthony (Vanderbilt University)
• “Environmental Science for National Development: The Seoul Environmental Assessment Project of the Smithsonian Institution, 1971-1975,” Chuyoung Won (Seoul National University)
• “Diversity and Biodiversity: Applying Oral History to Community, Ecology, and Archeology in America’s Amazon,” Kathy Cooke (University of South Alabama)
• “Deceleration: Biogeography, Snails, and the Temporality of Landscapes, ca. 1900,” Nils Güttler (ETH Zurich)

HOW INSTITUTIONS TRANSLATE? PREMODERN KNOWLEDGE IN TRANSMISSION BETWEEN LANGUAGES AND INSTITUTIONAL FRAMEWORKS

Drift 25, Rm. 302

Moderator: Katja Krause (Max Planck Institute for the History of Science / TU Berlin)
Organizer: Maria Avxentevskaya (Max Planck Institute for the History of Science, Berlin)

• “Translating the State: Technical Translation in Building the Russian Empire,” Maria Avxentevskaya (Max Planck Institute for the History of Science, Berlin)
• “Privileged Translations: State-Sponsored Translations in the Early Dutch Republic,” Marius Buning (Dahlem Research School Fellow, Freie Universität Berlin)

HISTORY OF SCIENCE EDUCATION AS HISTORY OF SCIENCE: OBJECTIVES, OBJECTS, PRACTICES

Drift 27, Rm. 032

Moderator: Anja Sattelmacher (Institute for Musicology and Media Studies at the Humboldt University, Berlin)

Organizers: Dana Freiburger (University of Wisconsin-Madison) and Roland Wittje (Indian Institute of Technology Madras)

• “The B.S. Degree: A New Objective in Nineteenth-Century American Catholic Higher Education,” Dana Freiburger (University of Wisconsin-Madison)
• “Access to and Uses of a Natural Philosophy University Collection in the 19th Century,” Laura Volkmer (University of Edinburgh & National Museums Scotland)
• “Instruments in Research Experiments and Their Educational Representatives,” Peter Heering (Europa-Universitaet Flensburg, Germany)
• “Science and Engineering Education at IIT Madras: Indian and German Perspectives and Practices in Conflict,” Roland Wittje (Indian Institute of Technology Madras)
• “Nature in Translation: Transferring Botanical Knowledge in the Early Modern Caribbean (1550-1750),” Jaya Remond (I Tatti)
• “Translating Metrology,” Florence Hsia (University of Wisconsin-Madison)

MANIPULATING AIRS
Drift 25, Rm. 301

Moderators: Elena Serrano (Max Planck Institute for the History of Science, Berlin) and Marie Thebaud-Sorger CNRS/Maison Française D’Oxford

Organizer: Paul Sampson (Rutgers, the State University of New Jersey)
• “Disciplining the Environment: Ventilation and Prison Reform in Britain, 1750-1800,” Paul Sampson (Rutgers, the State University of New Jersey)
• “Ventilation, Fumigation, and the Creation of Healthy Air in British Naval Hospitals ca. 1775-1815,” Erin Spinney
• “Air as Resource: Thinking about Air-Powered Transport in the Nineteenth Century,” Laura Meneghello (Department of History, University of Siegen)

MATERIAL CULTURES AND MEDICAL ARTIFACTS
Drift 25, Rm. 303

Moderator: Carla Bittel (Loyola Marymount University)
Organizer: Elizabeth Neswald (Brock University)
• “Model Communities: Artificial Anatomies and the Paradox of Modern Identity,” Anna Maerker (King’s College London)
• “On Objects and Bodies: Non-Representational Theory and Medical Materiality,” Adam Bencard (University of Copenhagen)
• “Disability Materiality,” Jaipreet Virdi (University of Delaware)

OBJECT LESSONS OF NATURAL HISTORY: ORGANISMS AT THE BOUNDARIES OF LIFE
Drift 25, Rm. 102

Moderator and Organizer: Joan Steigerwald (York University)
• “The Algal Organism at the Beginning of Biology,” Ryan Feigenbaum (History of Science Society)
• “Infusoria: New Prospects for the History of Life,” Joan Steigerwald (York University)
• “Fugitive, Cryptic, Queer: Fungal Forms of Belonging,” Ella Mershon (Newcastle University, Lecturer in Victorian Literature)
• “Exploring New ‘Histories of Nature’ with Marine Microbes: Living Matter at the Edge of Life,” Astrid Schrader

REPRESENTATIONS
Drift 25, Rm. 206
Moderator: Andrea Van Leerdam (Descartes Centre, Utrecht University)
• “The ‘Skins’ of the Earth: Artisan Expertise and the ‘Discovery’ of Geological Strata in Fifteenth-Century Italy,” Ivano Dal Prete (History of Science and Medicine, Yale University)
• “Image and Idea in the History of the Earth, 1650-1750,” Wouter De Vries (Vrije Universiteit, Amsterdam)
• “On the Role and the Process of Drawing in the Record of Microscopy Observations: The Histological Work of Abel Salazar,” Maria Strecht Almeida (Abel Salazar Biomedical Sciences Institute, University of Porto)
• “Travelling Back through Them: Immersion and Virtual Mobility by 17th Century English Scientific Collections,” Saara I. M. Penttininen (University of Turku)

RHETORICS OF RIGOR
Janskerhof 2-3, Rm. 013
Moderator: Stephanie Dick (University of Pennsylvania)
Organizer: David Dunning (Princeton University)
• “Postulate Theory and the Growth of American Mathematics, 1894-1945,” Ellen Abrams (Cornell University)
• “L. Susan Stebbing and the Logic of Democracy,” David Dunning (Princeton University)
• “Is the Computer Scientist a Mathematician? The Question of What Should Become of Computer Science at Stanford, 1960-1965,” Tasha Schoensteini (Harvard University)
• “Commentary: Rhetorics of Rigor,” Stephanie Dick (University of Pennsylvania)

SPEED, STRESS, AND STRAIN: DISORDERS OF MODERN LIFE, 1850-1900
Drift 13, Rm. 004
Moderator: John Christie (University of Oxford)
Organizer: Sally Shuttleworth (University of Oxford)
• “Between Order and Chaos: Telegraphy and the Stresses of Everyday Life,” Jean-Michel Johnston (University of Oxford)
Friday, 26 July 2019 | 18:30–20:00

- “Stress, Strain, and the Nineteenth-Century Medical Marketplace,” Melissa Dickson (University of Birmingham)
- “Overwork and Sleeplessness in Victorian Culture,” Sally Shuttleworth (University of Oxford)
- “Commentary: Speed, Stress, and Strain: Disorders of Modern Life, 1850-1900,” Gowan Dawson (University of Leicester)

**TEXTS AND CONTEXTS OF MEDIEVAL ASTRONOMY AND ASTROLOGY: STRUCTURES, INSTRUCTIONS, AND TEACHING STRATEGIES**

Drift 25, Rm. 204

Moderator and Organizer: Margaret Gaida (University of Oklahoma)

- “Firm Content, Fluid Forms: Al-Farghani’s Elements of Astronomy as a Recasting of Ptolemaic Astronomy,” Raziehsadat Mousavi (Max Planck Institute for the History of Science)
- “Comparing Latin and Islamic Contexts of Teaching and Learning Astrology in the Medieval Period,” Margaret Gaida (University of Oklahoma)


---

**ELIZABETH PARIS PUBLIC ENGAGEMENT LECTURE: IN EUROPE**

Railway Museum, Maliebaanstation 16

Moderators: Deborah Coen (Yale University) and Bert Theunissen (Descartes Centre, Utrecht University)

- “A Musical Story of Time,” Susanna Bloem
- “In Europe,” Jeroen Van Dongen

Abstract: As the History of Science Society, which is based in America, holds its annual meeting in Utrecht, one of the key academic centers on the European continent, one may surmise that the field has returned home. Yet, this hardly reflects how today’s world of scholarship is constituted: in the historiography of science, “provincializing Europe” has become an important theme, while the field itself, as is the case across the world of academia, is centered around a predominantly American literature. At the same time, ever since historians of science have emancipated themselves from the sciences a long time ago, they often have appeared, in the public eye, to question rather than to seek to bolster the authority of the sciences. How has this situation come about, and what
does it tell us about the world we live in today? What insight is sought and what public benefit is gained by the historical study of science? As we try to answer these questions, we will follow a number of key mid-twentieth century historians in their Atlantic crossings. Their answers to debates on the constitution of the early modern ‘scientific revolution’ or the novelty of the work of Albert Einstein will illustrate how notions of ‘center’ and ‘periphery’ have shifted-and what that may tell us about being ‘in Europe’ today. Jeroen van Dongen is Professor of History of Science at the University of Amsterdam. He studies black holes, Einstein, and themes that cut across science in its Cold war contexts and general questions of how to conduct historiography. He has taught and researched at Utrecht University, the Max Planck Institute for the History of Science in Berlin, and the Einstein Papers Project at Caltech.

The lecture is being supported by the Elizabeth Paris Endowment for Socially Engaged History and Philosophy of Science. The Endowment honors the life of Elizabeth Paris, a scholar who was committed to integrating the intellectual side of the history of science with its social, institutional, and policy aspects.

---

**Saturday, 27 July 2019**

07:45–08:45

**HSS BUSINESS MEETING**

Drift 27, Eetkamer

All HSS members are welcome. Refreshments will be served.

Materials for the HSS Business Meeting, including the 2018 Business Meeting minutes and committee reports, are available on the meeting website.

**Agenda:**

- President’s Welcome, Bernard Lightman (York University)
- Approval of Minutes
- Executive Director’s Report, Jay Malone
- Editor’s Report, Alexandra Hui
- Treasurer’s Report, Gwen Kay
- Committee Reports
  Synopsis, Jay Malone

09:00–11:45

**“IMAGO” - STORIES FROM THE MARGINS OF GLOBAL INSECT STUDIES, 18TH TO 20TH CENTURIES**

Drift 21, Rm. 005

Moderator: Sietske Fransen
(Bibliotheca Hertziana, Max Planck Institute for History of Art)

Organizer: Dominik Huenniger
(University of Hamburg)
Saturday, 27 July 2019 | 09:00–11:45

• “The Travails of Traveling Natural History Artists,” Beth Tobin (University of Georgia)
• “Teaching Entomology through Images: Insect Representation in Wallcharts between the Nineteenth and Twentieth Century,” Elena Canadelli (University of Padova)
• “Intellectuals, Illustrators, and Insects: Three Stories from Continental European Entomology, 1764-1812,” Dominik Huenniger (University of Hamburg)
• “‘Ideal Specimens’: Butterfly Nature Prints, Entomology, and the Decorative Arts in Early 20th Century Japan,” Kerstin Pannhorst (Humboldt-Universität zu Berlin / Max Planck Institute for the History of Science)
• “Artisan Entomologists: Stories from the Porcelain Manufactories of Europe,” Gabriella Szalay (Renke B. and Pamela M. Thye Fellow in the Busch-Reisinger Museum/ Harvard Art Museums)
• “Tracing Racial Illustrations in Historic Cranial Collections, 1790-1850: Camper, Blumenbach, and Morton,” Paul Wolff Mitchell (University of Pennsylvania)
• “Monster Collectors from Peter to Willem: Abnormal Bodies and Embryology, 1697-1849,” Sara Ray (University of Pennsylvania)
• “Reading Skulls: An Object-Based Study of the Vrolik Collection of Racial Anthropology to Determine a Change in Focus of Collecting, 1800-1860,” Laurens De Rooy (Museum Vrolik, Amsterdam University Medical Centers)
• Panel Discussion: “Anatomical Representation and Bodily Difference in the Long-Nineteenth Century”

ANATOMICAL REPRESENTATION AND BODILY DIFFERENCE IN THE LONG-NINETEENTH CENTURY
Drift 25, Rm. 105
Moderator: Marieke Hendriksen (Utrecht University / University of Amsterdam)
Organizer: Sara Ray (University of Pennsylvania)

AS ABOVE, SO BELOW: ASTROLOGY, COMETS, VOLCANOES AND EARTHQUAKES IN MEDIEVAL AND EARLY MODERN EUROPE
Drift 25, Rm. 102
Moderator: Tayra Lanuza-Navarro (Universitat de València)
Organizer: H Darrel Rutkin (Università Ca’ Foscari Venezia, ERC EarlyModernCosmology)
• “Horoscopy in the Middle Ages and the Renaissance: Reflections on Astrology and Divination in Relation to Fate, Freedom, and Their Scientific Status,” H Darrel Rutkin (Università Ca’ Foscari Venezia, ERC EarlyModernCosmology)

• “Astrology and Comets: Earthly Symbols and Celestial Signs,” Stefan Zieme (Humboldt-University Berlin)

• “An Unlikely Encounter: Arabic Astrology, Seismology, and Vulcanology at the Dawn of the Enlightenment,” Monica Azzolini (University of Bologna)

• “The Polemic between Pierre Gassendi and Jean Baptiste Morin on Galileism, Copernicanism, and Galilean Astrology,” Rodolfo Garau (Università Ca’ Foscari Venezia, ERC EarlyModernCosmology)

• “Anachronizing Astrology: Philosophic Prophecy in the Enlightenment,” Steven Vanden Broecke (Ghent University)

• “Georg Joseph Kamel (1661-1706): Natural and Medical Knowledge in Transit between the Philippines and Europe,” Sebastian Kroupa (University of Cambridge)


• “Clues in Recipes and Verses: Transmission of Malay-Language Books of Medicine and Cross-Cultural Mediation of Natural Knowledge in the Dutch East Indies,” Genie Yoo (Princeton University)

• “A Mantra for Elephants: Religion and Animal Modernity in Early Modern Malaya,” Faizah Zakaria (Postdoctoral Researcher, Leiden University)

• “Decolonizing Medicine and Science in North Africa,” Edna Bonhomme (Max Planck Institute for History of Science)

HERBS, PLANTS, AND VEGETAL BODIES: BOTANICAL KNOWLEDGE IN MEDICAL, NATURALISTIC, AND PHILOSOPHICAL CONTEXTS

Drift 25, Rm. 302

Moderator: Alain Touwaide (Institute for the Preservation of Medical Traditions)

Organizers: Alain Touwaide (Institute for the Preservation of Medical Traditions) and Fabrizio Baldassarri (ICUB, University of Bucharest)
• “Plant Drawings and Plant Scholars in the Late Middle Ages,” Dominic Olariu (University of Marburg; Gotha Research Centre of the University of Erfurt)

• “Bricolage and the ‘Modern Order’ of the Codex Roccabonella,” Sarah Kyle (University of Central Oklahoma)

• “Italian Naturalists, Patrons, and Painters: Methods of Collecting and Studying Plants and Aquatic Creatures in the 16th Century,” Florike Egmond (Postdoctoral Researcher, Leiden University)

• “The Mechanical Life of Plants in 17th-Century Natural Philosophy,” Fabrizio Baldassarri (ICUB, University of Bucharest)

• “Exotic Plants in the Crisis of the Galenic System and the Eighteenth-Century Medical Debate,” Federica Rotelli (Società Botanica Italiana)

• “Stripped Down to Bare Bones: Navigating the Pelvis in Enlightenment France,” Margaret Carlyle (Postdoctoral researcher, University of Chicago)

• “Surgical Instrumentation in the Practice of Craniotomy in 19th-Century Brazil,” Isabela Dornelas (Federal University of Minas Gerais)

• “Birthing Machines and the Turn to Physiology in Twentieth Century Obstetrics,” Martina Schlünder (Max Planck Institute for the History of Science, Berlin)

• “Modelling Authority: Obstetrical Machines, the Senses, and the Boundaries of Expertise,” Jennifer Kosmin (Bucknell University)

KNOWING THE LITTORAL: HEIGHTS AND DEPTHS ALONG THE WORLD’S COAST

Drift 25, Rm. 203

Moderator: Marina Tolmacheva (Washington State University, Pullman)

Organizer: Wilko Graf von Hardenberg (Max Planck Institute for the History of Science)

• “Shallow Water at China’s Coast: Depicting Dangers on Early Modern Chinese Maps,” Elke Papelitzky (NYU Shanghai)

• “Crossing Shallow Seas: Muddy Imaginaries in the Age of Exploration,” Christopher L. Pastore (History, University at Albany)
• “Thinking in Averages: On the Conceptualization of the Level of the Sea as a Mean,” Wilko Graf von Hardenberg (Max Planck Institute for the History of Science)

• “Transgressions and Regressions: An Incomplete Atlas of Stones,” Elise Hunchuck (Independent Researcher)

• “Commentary: Knowing the Littoral: Heights and Depths along the World’s Coast,” Marina Tolmacheva (Washington State University, Pullman)

• “Don’t Meddle in Physical Considerations of the Mind: Locke and the Problem of the Naturalization of the Mind,” Charles Wolfe (Ghent University)

• “Hartley’s Naturalization of the Mind,” Catherine Dromelet (University of Rome 3)

• “Anatomies of the Mind in Enlightenment Britain,” Tamás Demeter (Hungarian Academy of Sciences)

• “Early Modern Explanations of Habit and the Association of Ideas,” Kathryn Tabb (Department of Philosophy, Columbia University)

• “Commentary: Naturalization of the Mind after Locke,” Martin Lenz (University of Groningen)

NATURE AND DESIRE: IOAN PETRU CULIANU’S ÉROS ET MAGIE À LA RENAISSANCE, 35 YEARS LATER

Drift 25, Rm. 303

Moderator: Koen Vermeir (SPHERE, CNRS)

• “The Lure and Corruption of Saturn in Sixteenth-Century Central European Mining and Metalworking,” Tina Asmussen (ETH Zürich)

• “Emblems as Magic Tools and Heuristic Devices: Bruno, Bacon, and Culianu,” Dana Jalobeanu (University of Bucharest)

• “Re-Examining Culianu: Cardano, the Roman Inquisition, and the Power of Spirits,” Jonathan Regier (Ghent University, FWO)

• “The Cosmic Eros of Renaissance Vitalism: A Reassessment,” Pietro Deniel Omodeo (ERC EarlyModernCosmology, Ca’ Foscari University of Venice)

• “Commentary: Nature and Desire: Ioan Petru Culianu’s Eros et Magie à la Renaissance, 35 Years Later,” Koen Vermeir (SPHERE, CNRS)

PAPER TECHNOLOGIES

Drift 25, Rm. 206

Moderator: Sven Dupré (Utrecht University / University of Amsterdam)
• “Know Thyself, Know the World: Early Modern Paper Engineering and Anatomical-Geometrical Bodies,” **Lianne Habinek** (Fellow, University of Strasbourg Institute of Advanced Study)

• “The Places of the Sun, Mercury, and Venus: Diagrammatic Innovation in Medieval and Renaissance Planetary Order,” **James Brannon** (Independent scholar)

• “Pen to Print in 18th-Century Mathematics: Boscovich Uses the Page,” **Robin Rider** (University of Wisconsin-Madison)

• “Whaling Intelligence: Paper Technologies of U.S.-American Exploration in the Pacific,” **Felix Lüttge** (University of Basel)

• “The Outbreak Report as Paper Technology: Epidemiological Reasoning in the Early 20th Century,” **Lukas Engelmann** (Science, Technology and Innovation Studies (University of Edinburgh))

• “New Health Educators: Film as Public Educational Tool Challenging Concepts of Health and Disease (Medical Film Collections in Austria),” **Katrin Pilz** (Université Libre de Bruxelles, Universität Wien, Ludwig Boltzmann Institute for Digital History)

• “Moving Pictures in Class: The Audiovisual Heritage of Gdr Educational Films on Science,” **Kerrin Klinger** (Bibliothek für Bildungsgeschichtliche Forschung (BBF) im Deutschen Institut für Internationale Pädagogische Forschung (DIPF))

• “From Analog to Digital: What Happens When a Historic Film Archive is Stored Electronically?,” **Anja Sattelmacher** (Institute for Musicology and Media Studies at the Humboldt University, Berlin)

• “Behavior (Un)Archived: Research Films in East German Bioacoustics,” **Sophia Gräfe** (Philipp-Bolzmann University Marburg)

• “Commentary: Science on the Film Strip: Collecting, Preserving, and Archiving Research and Educational Films,” **Sybilla Nikolow** (Director, Historische Arbeitsstelle, Museum für Naturkunde Berlin, Germany)

**SCIENCE ON THE FILM STRIP: COLLECTING, PRESERVING AND ARCHIVING RESEARCH AND EDUCATIONAL FILMS**

*Drift 25, Rm. 204*

Moderator: **Sigrid Leyssen** (Bauhaus-Universität Weimar)

Organizer: **Anja Sattelmacher** (Institute for Musicology and Media Studies at the Humboldt University, Berlin)

**TOWARDS A HISTORY OF THEORETICAL BIOLOGY**

*Drift 21, Rm. 032*

Moderator: **Tatjana Buklijas** (University of Auckland)

Organizers: **Jan Baedke** (Ruhr University Bochum) and **Daniel**
**Nicholson** (Konrad Lorenz Institute for Evolution & Cognition Research)

- “Doing Theory: German-Speaking Research Communities in Theoretical Biology, 1901-1945,” **Jan Baedke** (Ruhr University Bochum)
- “The Background of the Umwelt Concept: Jakob von Uexküll’s Theoretical Biology,” **Carlo Brentari** (Researcher, Department of Humanities, University of Trento (Italy))
- “How the West Was Lost: Revisiting the Supposed Failure of Anglo-American Theoretical Biology,” **Erik Peterson** (University of Alabama)
- “Non-Mathematical Approaches to Theoretical Biology in the Postwar Period,” **Daniel Nicholson** (Konrad Lorenz Institute for Evolution & Cognition Research)
- “Panel Discussion: Towards a History of Theoretical Biology”
Cold Spring Harbor Laboratory Archives

Opportunities for research

The CSHL archives on Long Island, New York are a major repository of primary material on the history of modern biology with a concentration on molecular biology, genetics, and biotechnology (1890-present).

CSHL’s Center for Humanities & History of Modern Biology awards several annual research fellowships and hosts talks, conferences, and workshops on the history of science and other disciplines.

Institutional Archives

- Brooklyn Institute of Arts and Sciences (1890-1924)
- Carnegie Institution of Washington (1904-1971)
  - CIW Eugenics Record Office
  - CIW Department of Genetics
- Long Island Biological Association (1924-1962)
- Cold Spring Harbor Laboratory (1962-present)
- CSHL Symposia Collection (1933-present)
- Oral History Collection
- Rare Book Collection
  ...and more.

Personal Collections

- Sydney Brenner
- Francis Crick
- Hugo Fricke
- Walter Gilbert
- Carol Greider
- Barbara McClintock
- Hermann J. Muller
- James D. Watson
- Charles Weissmann
- Evelyn Witkin...and more.

Center for Humanities & History of Modern Biology

Research funds

Sydney Brenner Scholarship

Awards up to $5,000 to fund travel and other expenses associated with working on a research project involving CSHL archives collections.

Research Travel Grants

Award up to $1,000 for onsite use of CSHL archives. Funds may be used for travel, lodging, and other expenses for research trips of any duration.

ELIGIBILITY: scholars in relevant disciplines at any career stage, writers, filmmakers, etc.

Information and many digitized collections available on the web at http://library.cshl.edu/archives/

Email, archives@cshl.edu   @CShLLibrary   @CSHLArchives
and the History of Science Society invite participants in HSS sessions to continue your discussions online.

The Consortium hosts online working groups for scholars from around world. These small groups engage in specialized discussion of drafts by participants, as well as other readings of interest.

The groups typically meet monthly for a semester or a year. Participants in each meeting number from six to twenty. Group membership is open to all members of the Consortium and HSS communities.

For further information, and to propose a new group, please see www.chstm.org

Hear more at the Consortium reception on Wednesday evening.
The Descartes Centre coordinates research in the field of history and philosophy of the sciences and the humanities at Utrecht University. The Centre was founded in 2007 as an interdisciplinary collaboration, supported and financed by all Utrecht University faculties. The Centre offers a multidisciplinary MSc program and organizes symposia, conferences, and seminars, and also supports a fellowship program.

**Master’s program History and Philosophy of Science**

The Master’s program in History and Philosophy of Science (HPS) offers a unique opportunity to study the foundations, practices, and culture of the sciences and the humanities from historical and philosophical viewpoints. 20-25 students from all disciplinary backgrounds start the two-year program each year. There are three thematic focus areas: History of Science and/or the Humanities, Philosophy of Science, and Foundations of Physics. The program is both broad and flexible and offers excellent career opportunities: some forty percent of the graduates continue to a PhD.

www.uu.nl/masters/en/history-and-philosophy-science

**Fellowships**

The Descartes Centre offers fellowships to promote intellectual exchange and collaboration in the domains of the history, the philosophy, and the foundations of the sciences and the humanities. Junior and senior fellowships are available for three months or less. The annual deadline for applications is 1 March.

www.uu.nl/en/descartes-centre
NEW FROM PITTSBURGH

American Dinosaur Abroad
A Cultural History of Carnegie’s Plaster Diplodocus
Ilja Nieuwland
Cloth • 978-0-8229-4557-4

Destined for the Stars
Faith, the Future, and America’s Final Frontier
Catherine L. Newell
Cloth • 978-0-8229-4556-7

The Life and Legend of James Watt
Collaboration, Natural Philosophy, and the Improvement of the Steam Engine
David Philip Miller
Paper • 978-0-8229-6611-1

Mechanism
A Visual, Lexical, and Conceptual History
Domenico Bertoloni Meli
Cloth • 978-0-8229-4547-5

Anxious Times
Medicine and Modernity in Nineteenth-Century Britain
Amelia Bonea, Melissa Dickson, Sally Shuttleworth, and Jennifer Wallis
Cloth • 978-0-8229-4551-2

NEW IN PAPER:
Solid State Insurrection
How the Science of Substance Made American Physics Matter
Joseph D. Martin
Paper • 978-0-8229-6603-6

A New Order of Medicine
The Rise of Physicians in Reformation Nuremberg
Hannah Murphy
Cloth • 978-0-8229-4560-4

Experimenting at the Boundaries of Life
Organic Vitality in Germany around 1800
Joan Steigerwald
Cloth • 978-0-8229-4553-6

Drugs on the Page
Pharmacopoeias and Healing Knowledge in the Early Modern Atlantic World
Edited by Matthew J. Crawford and Joseph M. Gabriel
Cloth • 978-0-8229-4562-8

Working with Paper
Gendered Practices in the History of Knowledge
Edited by Carla Bittel, Elaine Leong, and Christine von Oertzen
Cloth • 978-0-8229-4559-8

Entangled Itineraries
Materials, Practices, and Knowledges across Eurasia
Edited by Pamela H. Smith
Cloth • 978-0-8229-6577-0

The Correspondence of John Tyndall, Volume 6
The Correspondence, November 1856–February 1859
Edited by Michael D. Barton, Janet Browne, Ken Corbett, and Norman McMillan
Cloth • 978-0-8229-4533-8
EXPLORE Scholarship from CHICAGO in History and Philosophy of Science

History of Humanities
HOPOS: The Journal of the International Society for the History of Philosophy of Science
KNOW: A Journal on the Formation of Knowledge
Philosophy of Science

The Social History of Alcohol and Drugs: An Interdisciplinary Journal (New to Chicago!)
Speculum: A Journal of Medieval Studies
I Tatti Studies in the Italian Renaissance
The Wordsworth Circle (New to Chicago!)
Historical Studies in the Natural Sciences (HSNS) offers in-depth articles on a wide range of scientific fields, their social and cultural histories and supporting institutions, including astronomy, geology, physics, genetics, natural history, chemistry, meteorology, and molecular biology.

SUBSCRIBE NOW AND SAVE 20%

History of Science Society members can receive 20% off new, individual subscriptions to HSNS. Visit http://hsns.ucpress.edu and enter the discount code HSSMD at checkout.

Does your library subscribe? If so, you will have free access to the contents of HSNS. Ask your institution to subscribe.

ALSO AVAILABLE

www.ucpress.edu
<table>
<thead>
<tr>
<th>Book Title</th>
<th>Author</th>
<th>Edition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispatches from Planet 3</td>
<td>Marcia Bartusiak</td>
<td></td>
</tr>
<tr>
<td>Thirty-Two (Brief) Tales on the Solar System, the Milky Way, and Beyond</td>
<td>Marcia Bartusiak</td>
<td>Now in paperback</td>
</tr>
<tr>
<td>A Little History of Archaeology</td>
<td>Brian Fagan</td>
<td></td>
</tr>
<tr>
<td>Apollo’s Muse</td>
<td>Mia Fineman and Beth Saunders</td>
<td>Foreword by Tom Hanks</td>
</tr>
<tr>
<td>Three Laws of Nature</td>
<td>R. Stephen Berry</td>
<td></td>
</tr>
<tr>
<td>A Little Book on Thermodynamics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Artisanal Enlightenment</td>
<td>Paola Bertucci</td>
<td></td>
</tr>
<tr>
<td>Science and the Mechanical Arts in Old Regime France</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Our Beloved Kin</td>
<td>Lisa Brooks</td>
<td></td>
</tr>
<tr>
<td>A New History of King Philip’s War</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaching for the Moon</td>
<td>Roger D. Launius</td>
<td></td>
</tr>
<tr>
<td>A Short History of the Moon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herbs and Roots</td>
<td>Tamara Venit Shelton</td>
<td></td>
</tr>
<tr>
<td>A History of Chinese Doctors in the American Medical Marketplace</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Itch, Clap, Pox</td>
<td>Noelle Gallagher</td>
<td></td>
</tr>
<tr>
<td>Venereal Disease in the Eighteenth-Century Imagination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Einstein</td>
<td>Steven Gimbel</td>
<td></td>
</tr>
<tr>
<td>His Space and Times</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotten Bodies</td>
<td>Kevin Siena</td>
<td></td>
</tr>
<tr>
<td>Class and Contagion in Eighteenth-Century Britain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ganges</td>
<td>Sudipta Sen</td>
<td></td>
</tr>
<tr>
<td>The Many Pasts of an Indian River</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On the Backs of Tortoises</td>
<td>Elizabeth Hennessy</td>
<td></td>
</tr>
<tr>
<td>Darwin, the Galápagos, and the Fate of an Evolutionary Eden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Great Apes</td>
<td>Chris Herzfeld</td>
<td></td>
</tr>
<tr>
<td>Science, Adventure, and a Victorian Woman Who Opened the Heavens</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
<tr>
<td>Mescaline</td>
<td>Mike Jay</td>
<td></td>
</tr>
<tr>
<td>A Global History of the First Psychedelic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaching for the Moon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Short History of the Space Race</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ganges</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Many Pasts of an Indian River</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epidemics and Society</td>
<td></td>
<td></td>
</tr>
<tr>
<td>From the Black Death to the Present</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epidemics and Society</td>
<td></td>
<td></td>
</tr>
<tr>
<td>From the Black Death to the Present</td>
<td>Frank M. Snowden</td>
<td></td>
</tr>
<tr>
<td>Dante and the Early Astronomer</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
<tr>
<td>Science, Adventure, and a Victorian Woman Who Opened the Heavens</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
<tr>
<td>Dante and the Early Astronomer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mescaline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Global History of the First Psychedelic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaching for the Moon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Short History of the Space Race</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herbs and Roots</td>
<td>Tamara Venit Shelton</td>
<td></td>
</tr>
<tr>
<td>A History of Chinese Doctors in the American Medical Marketplace</td>
<td>Tamara Venit Shelton</td>
<td></td>
</tr>
<tr>
<td>Itch, Clap, Pox</td>
<td>Noelle Gallagher</td>
<td></td>
</tr>
<tr>
<td>Venereal Disease in the Eighteenth-Century Imagination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Einstein</td>
<td>Steven Gimbel</td>
<td></td>
</tr>
<tr>
<td>His Space and Times</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotten Bodies</td>
<td>Kevin Siena</td>
<td></td>
</tr>
<tr>
<td>Class and Contagion in Eighteenth-Century Britain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ganges</td>
<td>Sudipta Sen</td>
<td></td>
</tr>
<tr>
<td>The Many Pasts of an Indian River</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epidemics and Society</td>
<td>Frank M. Snowden</td>
<td></td>
</tr>
<tr>
<td>Dante and the Early Astronomer</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
<tr>
<td>Science, Adventure, and a Victorian Woman Who Opened the Heavens</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
<tr>
<td>Dante and the Early Astronomer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mescaline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Global History of the First Psychedelic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaching for the Moon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Short History of the Space Race</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herbs and Roots</td>
<td>Tamara Venit Shelton</td>
<td></td>
</tr>
<tr>
<td>A History of Chinese Doctors in the American Medical Marketplace</td>
<td>Tamara Venit Shelton</td>
<td></td>
</tr>
<tr>
<td>Itch, Clap, Pox</td>
<td>Noelle Gallagher</td>
<td></td>
</tr>
<tr>
<td>Venereal Disease in the Eighteenth-Century Imagination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Einstein</td>
<td>Steven Gimbel</td>
<td></td>
</tr>
<tr>
<td>His Space and Times</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotten Bodies</td>
<td>Kevin Siena</td>
<td></td>
</tr>
<tr>
<td>Class and Contagion in Eighteenth-Century Britain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ganges</td>
<td>Sudipta Sen</td>
<td></td>
</tr>
<tr>
<td>The Many Pasts of an Indian River</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epidemics and Society</td>
<td>Frank M. Snowden</td>
<td></td>
</tr>
<tr>
<td>Dante and the Early Astronomer</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
<tr>
<td>Science, Adventure, and a Victorian Woman Who Opened the Heavens</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
<tr>
<td>Dante and the Early Astronomer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mescaline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Global History of the First Psychedelic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaching for the Moon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Short History of the Space Race</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herbs and Roots</td>
<td>Tamara Venit Shelton</td>
<td></td>
</tr>
<tr>
<td>A History of Chinese Doctors in the American Medical Marketplace</td>
<td>Tamara Venit Shelton</td>
<td></td>
</tr>
<tr>
<td>Itch, Clap, Pox</td>
<td>Noelle Gallagher</td>
<td></td>
</tr>
<tr>
<td>Venereal Disease in the Eighteenth-Century Imagination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Einstein</td>
<td>Steven Gimbel</td>
<td></td>
</tr>
<tr>
<td>His Space and Times</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotten Bodies</td>
<td>Kevin Siena</td>
<td></td>
</tr>
<tr>
<td>Class and Contagion in Eighteenth-Century Britain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ganges</td>
<td>Sudipta Sen</td>
<td></td>
</tr>
<tr>
<td>The Many Pasts of an Indian River</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epidemics and Society</td>
<td>Frank M. Snowden</td>
<td></td>
</tr>
<tr>
<td>Dante and the Early Astronomer</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
<tr>
<td>Science, Adventure, and a Victorian Woman Who Opened the Heavens</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
<tr>
<td>Dante and the Early Astronomer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mescaline</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Global History of the First Psychedelic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaching for the Moon</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Short History of the Space Race</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herbs and Roots</td>
<td>Tamara Venit Shelton</td>
<td></td>
</tr>
<tr>
<td>A History of Chinese Doctors in the American Medical Marketplace</td>
<td>Tamara Venit Shelton</td>
<td></td>
</tr>
<tr>
<td>Itch, Clap, Pox</td>
<td>Noelle Gallagher</td>
<td></td>
</tr>
<tr>
<td>Venereal Disease in the Eighteenth-Century Imagination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Einstein</td>
<td>Steven Gimbel</td>
<td></td>
</tr>
<tr>
<td>His Space and Times</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotten Bodies</td>
<td>Kevin Siena</td>
<td></td>
</tr>
<tr>
<td>Class and Contagion in Eighteenth-Century Britain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ganges</td>
<td>Sudipta Sen</td>
<td></td>
</tr>
<tr>
<td>The Many Pasts of an Indian River</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epidemics and Society</td>
<td>Frank M. Snowden</td>
<td></td>
</tr>
<tr>
<td>Dante and the Early Astronomer</td>
<td>Tracy Daugherty</td>
<td></td>
</tr>
</tbody>
</table>
Index

A
Abrams, Ellen 67
Ackert, Lloyd 5, 10, 57
Alberts, Gerard 48
Albuquerque, Sara 27
Almeida, Maria Strecht 67
Aramina, Anna 35, 47
Anthony, Patrick 65
Apajalahti, Ahto 43
Arnet, Evan 50
Aronova, Elena 5, 63
Asmussen, Tina 73
Astbury, Leah 29
Aubin, David 55
Aubin, Nicholas 27
Ausejo, Elena 42
Avila, Nydia Pineda De 62
Avxentevskaya, Maria 65
Ayers, Elaine 60
Azzolini, Monica 71

Babbitt, James 30
Baedke, Jan 74, 75
Baldassarri, Fabrizio 71, 72
Baldi, Rossella 45
Baldwin, Melinda 10
Banek, David 3, 6, 7
Bangham, Jenny 39
Baradel, Lacey 34
Barany, Michael 55
Bardi, Alberto 68
Barford, Megan 62
Barrett, Gordon 23
Baumhammer, Megan 61
Bayoumi, Soha 25
Bellis, Richard 61
Bencard, Adam 66
Benedetto, Marienza 27
Benson, Etienne 35
Berenstein, Nadia 51, 56
Bergers, Lara 30
Berkman, Natalie 55
Berlivet, Luc 31, 36
Bertomeu-Sánchez, José Ramón 56
Bertoni, Filippo 39
Bertucci, Paola 10, 11, 39
Bhattacharya, Shihra 57
Bil, Geoff 42
Bitbol-Hespériès, Annie 40
Bittel, Carla 58, 66
Bilbo, Frank 52
Block, Kristen 28
Bloem, Susanna 68
Boantza, Victor 46
Bonhomme, Edna 22, 71
Bont, Raf De 35
Boom, Mathijs 41
Boon, Tim 32
Bouk, Dan 58
Boumans, Marcel 33
Braun, James 74
Brassington, Laura 60
Brazelton, Mary Augusta 23
Brentari, Carlo 75
Brescia, Moritz Von 63
Bridger, Sarah 64
Brinitzer, Cameron 49
Brixius, Dorit 63, 71
Brockmann, Sophie 62
Broecke, Steven Vanden 71
Brooks, Ross 37
Browne, Janet 5, 10, 60
Brown, Millie Bobby 11
Brusius, Mirjam 40
Bruno, Elizabeth 52
Bruyninckx, Joeri 46
Buehler, Scottie 72
Buklijas, Tatjana 74
Buning, Marius 65
Burney, Ian 30
Burton, Elise 31
Butcher, Tom 37
Byers, Joyce 64
Canadelli, Elena 70
Carlyle, Margaret 72
Carson, John 51
Carson, Sarah 38
Carter, Eoin 43
Case, Stephen 50, 59
Cassata, Francesco 51
Caudano, Anne-Laurence 16, 55
Chacana, Natalia Gonzara 62
Chacko, Xan 39
Chadarevian, Soraya De 36, 40
Champion, Axelle 51
Cheng, Sijia 27
Chiang, Howard 60
Chikurel, Idit 46
Christie, John 43, 67
Clarke, Sabine 23
Clever, Iris 31
Clifton, James 24
Coen, Deborah 26, 35, 68
Cohen-Cole, Jamie 29, 64
Cohen, Floris 10
Cohen, H. Floris 44
Comfort, Nathaniel 5
Cooke, Kathy 65
Cook, Harold 30, 40
Cooley, Mackenzie 55
Cooper, Aili 15
Corry, Leo 55
Coudreau, Marin 23
Cowles, Henry 30
Creager, Angela N. H. 44, 52
Csizsar, Alex 33, 62
Cummiskey, Julia 58
Curry, Helen Anne 35, 64

C
Caballero-Navas, Carmen 29
Cabré, Montserrat 45
Cagle, Hugh 26, 27
Campos, Luis 5, 40, 51
Camprubí, Lino 35
Daas, Ariane den 3, 6
Dacome, Lucia 28, 39
Daling, Dorien 33
Datiles, Marianne Jennifer 25, 32
Davies, Surekha 24
Davis, Ian 50
Dawson, Gowan 68
Dekker, Erwin 33
Delgado, Abigail Nieves 31
Demeter, Tamás 73
Devorkin, David 34, 56
Dew, Nicholas 45
Dickson, Melissa 68
Dick, Stephanie 5, 60, 67
Dijksterhuis, Fokko Jan 29
Dimitrokali, Myrto 47
Dimoia, John 23
Djokic, Vedran 61
Dunning, David 67
Dupré, Sven 5, 45, 73
Dwyer, Nicholas 45
Dziewoński, Anna 74
Echterbölter, Anna 37
Eckes, Christophe 55
Egmond, Florike 72
Ehlers, Sarah 57
Ehrenfreund, Max 33
Elly Truitt 36
Engelmann, Lukas 74
Epstein-Levi, Rebecca 60
Errazuriz, Veronica 48
Eskeud, Kasper 39
Fleetwood, Lachlan 50
Flegar, Vanja 24
Fleming, Jim 63
Flemming, Rebecca 29
Florensa, Clara 43
Flow, Christian 63
Fokko Jan Dijksterhuis 29
Foot, John 44
Franco, Matthew 49, 62
Fransen, Sietske 45, 49, 69
Franta, Benjamin 22
Freiburger, Dana 65
Freiden, Anna 29
Freire, Olival 5, 52
Freris, Loukas 43
Gaida, Margaret 68
Gallay, Antoine 50
Gannett, Lisa 36
Garau, Rodolfo 71
Georg, Maximilian 50
Gere, Cathy 41
Gessner, Samuel 26
Ghanouli, Saniya Lee 37
Gianquitto, Tina 60
Gillin, Edward 63
Goeing, Anja 30
Gold, Meira 61
Golinski, Jan 5, 11, 53
Gómez, Pablo 28, 71
Gonik, Ashley 25
Gooday, Graeme 52
Good, Gregory 59
Graber, Anna 46
Gräfe, Sophia 74
Green, L. Joanne 31
Gribenski, Fanny 37
Grosholz, Jean-Baptiste 36
Gross, Benjamin 19
Grote, Mathias 33, 34
Guerrini, Anita 39, 44
Gurgel, Iva 47
Güttler, Nils 65
Haaalboom, Floor 41
Habinek, Lianne 74
Hackett, Jeremiah 27
Hagen, Sjang Ten 47
Hagner, Michael 33
Hajek, Kim 62
Hamblin, Jacob 11
Hamblin, Jacob Darwin 5
Hamilton, Emily T. 51
Hamza, Shireen 49
Hardenberg, Wilko Graf von 72, 73
Harlington, Steve 36
Heaney, Christopher 62
Heering, Peter 65
Hede, Anke Te 54
Heideckang, Julia 32
Helbig, Daniela 28
Henderson, Dustin 46
Hendriksen, Marieke 39, 70
Hess, Volker 32
Hevly, Bruce 11
Hogan, Andrew 51
Holland, Barbara 35
Hollewand, Karen 45
Holmes, Matthew 31
Hopper, Jim 56
Hopwood, Nick 40
Hsia, Florence 66
Hsiung, Hsiansun 36, 58
Huang, Chi Chi 62
Huang, Hsiansun 53
Huang, Lily 28
Huber, Vitus 61
Huenninger, Dominik 69, 70
Hui, Alexandra 5, 11, 37, 44, 52, 69
Huistra, Hieke 52
Hull, Andrew 55
Hunchuck, Elise 73
Husson, Matthieu 26
Hyun, Jachwan 23
Ibrahim, Baher 46
I
Ibrahim, Baher 46
Jacobson, Lif Lund 48
Jacobson, Nicholas 26
Jalobeau, Dana 73
JAMES, Frank 24, 43
Jankovic, Vladimir 35, 38
Nasim, Omar 59
Naylor, Simon 38
Nelson, Eli 25
Neste, Aaron Van 23
Neswald, Elizabeth 19, 66
Newson, Linda 30
Nicholson, Daniel 74, 75
Nickelsen, Kärin 41, 42
Niermeier-Dohoney, Justin 50
Nikolow, Sybilla 74
Novick, Tamar 27
Nyhart, Lynn 41
O'Brien, Jenne 46
Oertzen, Christine von 3, 6
Okazawa, Yasuhiro 62
Olariu, Dominic 72
Oldfield, Jonathan 35
Olesko, Kathy 10
Omar Nasim 40
Omodeo, Pietro Deniel 73
Onaga, Lisa 27, 58, 59
Opitz, Don 5
O'Rourke, Stephanie 24
Osborne, Michael 63
Ossmer, Carola 29
Oudshoorn, Nelly 44
Paasschen, Isabel Van 25
Palmieri, Kris 11, 15
Pannhorst, Kerstin 70
Papelizky, Elke 72
Parshall, Karen 18
Paskins, Matthew 52
Pasquetto, Irene 32
Passariello, Alessandra 37
Pastore, Christopher L. 72
Paumier, Anne-Sandrine 55
Pence, Charles 59
Pennington, Saara I. M. 67
Pereira, Letícia Dos Santos 32
Perry, Rebecca 35
Peterson, Erik 10, 75
Phalkey, Jahnavi 11
Pichel, Beatriz 40
Pilz, Katrin 74
Pohl, Barbara 25
Polloni, Nicola 27
Pols, Hans 42, 44
Porter, Jim 33
Porter, Theodore 28
Poskett, James 60
Post, Anna-Luna 61
Prete, Ivano Dal 67
Prince, Alexandra 51
Qidwai, Sarah 57
Rabinovitch, Oded 45
Raby, Megan 57, 62
Rader, Karen 59
Ragab, Ahmed 5, 45, 49
Raman, Shankar 46
Rampling, Jennifer 17
Randalls, Samuel 38
Rankin, Alisha 36, 45
Raposo, Pedro 19
Ray, Sara 70
Rees, Amanda 29
Regier, Jonathan 73
Reidy, Michael 11
Reinhart, Katherine 45
Reinisch, Jessica 34
Remond, Jaya 66
Rentetzki, Maria 47
Riccuilli, Anne 42
Richards, Joan 28
Richardson, Marsha 24, 40, 41, 59
Richter, Linda 38
Ricot, Gatien 55
Rider, Alexis 63
Rider, Robin 74
Rieppel, Lukas 27
Rietmann, Felix 29
Rimal, Madhusudan 51
Rindzeviciute, Egle 64
Ritvo, Harriet 27
Rivest, Justin 45
Roberts, Carolyn 28
Roberts, Lissa 22, 24
Robertson, David 29
Robinson, Ann 18
Robinson, Morgan 57, 58
Romano, Antonella 10
Roos, Anna Marie 46
Rooy, Laurens De 70
Rose, Edwin 47
Rossi, Michael 49
Rossini, Paolo 46
Rosson, Lois 35
Rotelli, Federica 72
Roters, Annalena 41
Rothenberg, Marc 5, 10
Rouyan, Anahita 50
Ruberg, Willemijn 30, 58
Rubinson, Paul 64
Rutkin, H Darrel 70, 71
Sabel, Claire Conklin 24
Safier, Neil 5, 49
Saha, Sudip 34
Sampson, Paul 66
Sanhueza-Cerda, Carlos 48
Sankaran, Neeraja 11
Sappol, Michael 70
Saraiva, Tiago 51
Sattelmacher, Anja 65, 74
Schäfer, Dagmar 11
Scheldon, Myrna Perez 5
Schickore, Jutta 11
Schlegelmilch, Ulrich 30
Schlünder, Martina 72
Schmalzer, Sigrid 26
Schmidtke, Alrun 33
Schmidt, Susanne 25
Schoenewald, Tasha 67
Scholten, Koen 46
Scholtz, Karen 5, 30
Scholtz, Karen-Beth 3
Schot, Johan 24
Schotte, Margaret 42
Schroder, Astrid 67
Schürch, Caterina 41
Sclavo, Daniela 24
Secord, Anne 61, 62
Secord, James 58, 59
Sellers, Vanessa 26
Sepkoski, David 11
Serrano, Elena 58, 66
Seth, Suman 5, 10, 28, 44
Shank, JB 11
Shapiro, Adam 57
Shaw, Denis 35
Shen, Yubin 23
Sheppard, Kathleen 5
Shi, Aijie 42
Shindell, Matthew 34, 35, 56
Shi, Yunli 53
Shmuely, Shira 27
Shuttleworth, Sally 26, 67, 68
Silva, Matheus Alves Duarte Da 34
Sinclair, Lucas 42
Singh, Charu 25, 57
Skotnes-Brown, Jules 57, 58
Sloan, Phillip R. 39
Smith, Crosbie 11
Smith, Robert 56
Soares, Hugo 25
Soler, Mariana 25
Somsen, Geert 34
Spary, Emma C. 39
Spinney, Erin 66
Stamhuis, Ida 41
Stark, Laura 17
Stark, Luke 62
Steigerwald, Joan 66
Steinert, Ulrike 29
Storey, Tessa 61
Strasser, Bruno 26
Strazzoni, Andrea 40
Stuhmann, Cora 36
Surita, Gina 24
Susanne Schmidt 37
Sysling, Fenneke 30, 32
Szalay, Gabriella 70
Szczygiel ska, Marianna 27

T
Tabb, Kathryn 73
Tabernero, Carlos 32
Tai, Chaokang 56
Tamborini, Marco 46
Tatjana Buklijas 39
Terrall, Mary 10, 72
Thebaud-Sorger, Marie 66
Theunissen, Bert 3, 6, 68
Thirissi, Muhammed Ashraf 57

Thompson, Andie 31
Thornton, Ray 58
Tirapicos, Luis 50
Tkaczyk, Viktoria 37
Tobin, Beth 70
Toledano, Anna 32
Tolmacheva, Marina 72, 73
Tomasson, Julia 46
Tonon, Jenna 11, 15
Touwai de, Alain 71
Tresch, John 49
Trigg, Scott 52
Truitt, Elly 5, 27, 36
Tunlid, Anna 51
Turbil, Cristiano 51
Tworek, Heidi 33, 61

Valderrama, Lorena B. 48
Vargha, Dora 34, 61
Veen, Anne Van 41
Verbeek, Theo 40
Verburgt, Lukas M. 63
Verhaegh, Sander 63
Vermeir, Koen 73
Vermij, Rienk 62
Vest, J. Martin 52
Vetter, Jeremy 16
Vijsselar, Joost 44
Virdi, Jaipreet 66
Volkmer, Laura 65
Voskuhl, Heidi 60
Vries, Wouter De 67

Walker, Oriana 66
Walker, Tamara 28
Walter, Scott 56
Wang, Jessica 42
Ward, Jacob 46
Waycott, Laurel 49
Wei, Jiemin Tina 48
Weil, Dror 49
Weldon, Stephen 44
Wellmann, Janina 36
Werrett, Simon 3, 6, 11
Weststeijn, Thijs 29
Wheeler, Mike 35, 50
Wheeler, Nancy 38
Widmalm, Sven 34

Wild, Kelley 59
Wille, Robert-Jan 62
Wittje, Roland 65
Wolfe, Charles 73
Won, Chuyoung 65
Woolner, Maia 36
Woudstra, Els 61
Wragge-Morley, Alexander 50
Wulz, Monika 38

Y
Yi, Doogab 31
Yildirim, Duygu 36
Yoo, Genie 71
Yu, Angela 48

Z
Zachmann, Karin 52
Zakaria, Faizah 71
Zieme, Stefan 71
Zilberstein, Anya 11, 44, 50
Zuidervaart, Huib 10

W
Walker, Oriana 66
Walker, Tamara 28
Walter, Scott 56
Wang, Jessica 42
Ward, Jacob 46
Waycott, Laurel 49
Wei, Jiemin Tina 48
Weil, Dror 49
Weldon, Stephen 44
Wellmann, Janina 36
Werrett, Simon 3, 6, 11
Weststeijn, Thijs 29
Wheeler, Mike 35, 50
Wheeler, Nancy 38
Widmalm, Sven 34