

# HISTORY of DISCOUNT SCIENCE HSS Dele

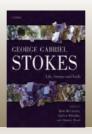
for **HSS 2019** Delegates

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### **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

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#### 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

Roll 1. Ma

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*)

2017-20192019-20212018-2020Susan JonesStephanie DickPaola BertucciGordon McOuatSven DupréNathaniel ComfortErika MilamJulia KursellOlival FreireSuman SethAhmed RagabJacob Darwin Hamblin

Gabriela Soto Laveaga Neil Safier Elly Truitt

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, oneway 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 JWs 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.

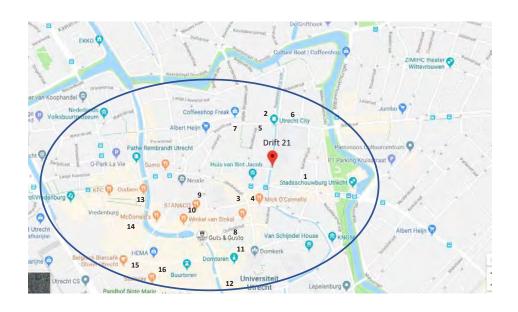
Where is the big box hotel? The short answer is that there is no hotel in Utrecht that could hold our meeting and even the ones with a large number of sleeping rooms do not have conference space, which we would have been forced to rent. Although there are advantages to everyone being in one location for the conference, there are also some 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



#### 4-6 minutes



#### 7-10 minutes



#### **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

Floris Cohen (2014-2019)

#### **Book Review Editors**

Ad Maas, (2014-2019) Huib Zuidervaart, (2017-2019)

#### Past President

Janet Browne (2018-2019)

#### **Council Delegate**

Paola Bertucci, (2018-2019)

#### 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) Gordon McOuat, (2017-2019) Melinda Baldwin, (2017-2019)

#### Committee on Education and Engagement

Lloyd Ackert, Chair (2014-2019) Erik Peterson, (2015-2019)

#### 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: <a href="mailto:ombudsperson@hssonline.org">ombudsperson@hssonline.org</a>
<a href="mailto:Approved by HSS Council">Approved by HSS Council</a>, 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 (<a href="https://www.hsonline.org">https://www.hsonline.org</a>) 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, <a href="https://hssgecc.wordpress.com">hssgecc.wordpress.com</a>.

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: <a href="facebook.com/groups/HSSwomenscaucus/">facebook.com/groups/HSSwomenscaucus/</a>.

#### 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)

#### **Book Exhibit**

Drift 21, Hall & Rm. 006

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: <a href="https://doi.org/10.1007/j.ncs.2019.html">https://doi.org/10.1007/j.ncs.2019.html</a>.



#### **EXHIBITORS\***

Pu	blisher Table No.
•	Brepols
•	Brill
•	Cambridge University Press
•	Cold Springs Harbor
•	Eurospan
•	Havard University Press
•	Huygens ING
•	Palgrave Macmillan
•	Princeton University Press
•	Royal Society Publishing
•	Science Museum
•	Taylor & Francis
•	The MIT Press
•	University of California PressCBE
•	University of Chicago Press
•	University of North Carolina PressCBE
•	University Pennsylvania PressCBE
•	Wiley
•	Yale University Press
	*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 you 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

Drift 25, Rm. 202

Privacy and other accommodations available for nursing mothers. Visit the registration desk for the key.

#### **Session Structure**

Attendees are encouraged to rotate during session. Each presentation is alloted 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 09:00-11:45 sessions.

#### **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.

#### 2019 Meeting Program

#### 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)

- "Contested Cooperation: The US-South Korea Ecological Survey in the Demilitarized Zone, 1963-1968," **Jaehwan Hyun** (Max-Planck-Institute for the History of Science)
- "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)
- "Scientific Cooperation and Asian Socialism: Chinese Ambitions and Regional Cooperation in the 1964 Peking Science Symposium," Gordon Barrett (University of Oxford)
- "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)
- "The Power of Phosphate: Energy and the 'Cellular Economy' in Twentieth-Century Biochemistry," **Gina Surita** (Princeton University)



### 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 Tedious': 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)



#### FLASHTALKS 4

Janskerhof 2-3, Rm. 013

Moderators: Bernard Lightman (York University), Marsha Richmond (Wayne State University), Johan Schot (University of Sussex)

- "'The Most Noble of All Commodities': Mineral Trade and the Earth Sciences in the Early Modern World," **Claire Conklin Sabel** (University of Pennsylvania)
- ""We need to talk about Richard Owen," Daniela Sclavo (University College of London)

- "At Home in the Museum: The Collection of Frederik Ruysch," **Isabel 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 Hayyan," 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)

• "The Struggle Over Politicized Scientific Facts in a Post-Truth Age: The Union of Concerned Scientists' Altercations with Presidential Science Advisors, 1969-2008," **Julia Marino** (Princeton University



#### **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, EXPLOR-ING NATURE, GOVERNING SPACE

Drift 25, Rm. 301

Moderator: **Hugh Cagle** (University of Utah)

Organizer: **Patrícia Martins Marcos** (University of California, San Diego)

• "To Study What Is Ours': Scientific and Political Representations of Africa in the Lisbon Zoological Museum, 1862-1881," **Catarina Madruga** (CIUHCT, University of Lisbon)

- "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)



# 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)

- "Elephant Empire beyond the Colonial Frontier," Marianna
   Szczygielska (Max Planck Institute for the History of Science, Berlin)
- "Alfred Wallace's Baby Orangutan: 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)



### PREMODERN NATURE: REGULARITY, EXCEPTIONS, MANIPULATIONS

Drift 25, Rm. 105

Moderator: **Elly Truitt** (Bryn Mawr College)

Organizer: **Yael Kedar** (Tel-Hai College)

- "al-'Āmirī 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)



# WHAT A LIFE MEANS: THE USES OF BIOGRAPHY IN THE HISTORY OF SCIENCE

Drift 13, Rm. 004

Moderator: Theodore Porter (UCLA)

Organizer: **Daniela Helbig** (University of Sydney)

- "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)
- "Institutional Lives: Biography as Analytical Tool for a Unified Narrative of International Scientific Organizations," **Roberto Lalli** (Max Planck Institute for the History of Science, Berlin)
- "Of Ideas and Ideals: Biography as Analytic Tool," **Joan Richards** (Brown University)
- "Commentary: What a Life Means: The Uses of Biography in the History of Science," **Theodore Porter** (UCLA)



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)



12:00-13:15

### MEETING OF THE COMMITTEE AND CAUCUS CHAIRS

Drift 25, Rm. 101



13:30-15:30

#### **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)

• "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)

 "Reconstructing Human Faces from DNA: Competing Methodologies and the Quest for Replicability," Irene Pasquetto (Harvard University)



#### MEDIATING SCIENCE

Drift 25, Rm. 301

Moderator: **Marianne Jennifer Datiles** (University College London)

- "Telling Histories of the Republic of Letters in the 18th Century: 'History of Learning' as Expression of Growing Self-Awareness of an International Community of Scholars and Scientists," **Dirk Van Miert** (Descartes Centre, Utrecht University)
- "Revisiting Wilhelm Ostwald's Nobel Prize in Chemistry," Letícia Dos Santos Pereira (Universidade Federal da Bahia, Brazil)
- "Staging the Natural Sciences: An Influential Cross-Platform Natural History Storytelling Strategy (Spain, 1960s-1970s)," **Carlos Tabernero** (Centre for the History of Science, Autonomous University of Barcelona - ESQ0818002H)
- "On the Early Postwar Public Culture of History of the Science Museum, London," **Tim Boon** (Science Museum Group)



#### READING, WRITING, AND COL-LECTING NATURE'S TRACES

Drift 27, Eetkamer

Moderator: **Dániel Margócsy** (HPS, University of Cambridge)

### 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)
- "Building Nature's Archive: The Management of Paper and Specimens in the Berlin Zoological Museum," Anne Greenwood Mackinney (Humboldt-Universität zu Berlin)



### 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)

15:30-16:00

- "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)

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



#### COFFEE BREAK

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



16:00-18:00

#### 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)
- "'Journalization' of Science Publishing: Periodicity of Book Formats at Springer, North-Holland, OUP, and Interscience, 1950-1965," **Alrun Schmidtke** (Humboldt-Universität)
- "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)

• "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 ENVIRONMENTS FROM A DISTANCE: TRANSNATIONAL SCIENCE AND POLICY DURING THE GREAT ACCELERATION

Drift 13, Rm. 004

Moderator: **Deborah Coen** (Yale University)

Organizer: **Raf De Bont** (Maastricht University)

- "Regional Universals: The Ecologies of the International Union for the Protection of Nature, 1950-1960," **Raf De Bont** (Maastricht University)
- "The Data of Development: North-South Tensions in the International Hydrological Decade, 1965-1974," **Etienne Benson** (University of Pennsylvania)
- "From Green to Blue: Ocean Conservation and Earth System Sciences," **Lino Camprubí**

 "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 NARRA-TIVES 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)
- "Languages of Broadcasting: Early Radio Research in Berlin and Princeton," **Viktoria Tkaczyk** (MPIWG)
- "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)

- "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)



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

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)



#### 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 TRAITÉ DE L'HOMME, AND THE CARTESIAN-IZING OF DUTCH MEDICINE

Janskerhof 2-3, Rm. 013

Moderator and Organizer: **Phillip R. Sloan** (University of Notre Dame)



- "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)



#### 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)

- "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 ORGA-NIZATION 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)

• "Cytogenetic "Plasmas," Hereditary Elements Revisited, and the Sonderweg of Botanical Genetics," **Daniel Liu** (ICI Berlin Institute for Cultural Inquiry)

- "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)



#### MULTI-SPECIES HISTORIES: BRIDG-ING THE MATERIAL AND CULTURAL WITH NON-HUMAN ANIMALS

Drift 25, Rm. 303

Moderator: **Susan Jones** (University of Minnesota)

Organizer: **Anne Van Veen** (Descartes Centre, Utrecht University)

- "Animal Fables," **Cathy Gere** (University of California, San Diego)
- "Dead Animals, Past and Present: Photography and Fossil Knowledges in Johannes Weigelt's Recent Vertebrate Carcasses and Their Paleobiological Implications," **Ana María Gómez López** (Independent scholar)

- "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 CUL-TURAL HISTORIES

Drift 21, Rm. 005

Moderators and Organizers: Fabian Kraemer (History of Science, Ludwig-Maximilians-Univestität 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-Univestität München, Germany)

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



#### PACIFIC SCIENCE IN TRANSNATION-AL 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)

- "Enlightenment's Apocalypse: Providence, Prophecy, and Science in the Work of Joseph Priestley," **John Christie** (University of Oxford)
- "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



12:00-13:00

## 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)



12:00-13:15

#### **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)



12:00-13:30

#### FHHS DISTINGUISHED LECTURE

Drift 27, Eetkamer

Sponsored by the Forum for the History of Human Science

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



13:30-15:30

#### ANTI-PSYCHIATRY, DEIN-STITUTIONALIZATION, 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 Vijselaar** (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 DISAR-TICULATIONS: 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 Univerity)

- "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 Hollewand** (Utrecht University)

• "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)
- "The Circulation of Morphological Knowledge: Twentieth-Century Science of Form between Evolutionary Biology and Architecture," Marco Tamborini (Institut für Philosophie, TU Darmstadt)
- "Culture, Trauma, and Confinement: The Making of Psychiatric Knowledge in Refugee Camps," **Baher Ibrahim** (University of Glasgow)



#### MATHEMATICAL CULTURES

Drift 25, Rm. 301

Moderator: **Julia Tomasson** (Columbia University)

 "Influences of Greek Geometrical Analysis on Maimon's Notions of Analysis," Idit Chikurel (University of Potsdam)

- "Thinking Small: Infinitesimal Thought in Early Modernity," **Shankar Raman** (Massachusetts Institute of Technology (MIT))
- "New Theories for New Instruments: Fabrizio Mordente's Proportional Compass and the Genesis of Giordano Bruno's Atomist Geometry," **Paolo Rossini** (Scuola Normale Superiore, Pisa)
- "The Manifold Meanings of Nineteenth-Century Mathematics: Bernhard Riemann's Construction of the Manifold," Jenne O'Brien (Princeton University)



#### 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 Exchange of Seismic Technology and Knowhow between USA and the Soviet Union, 1961-1965," **Lif Lund Jacobsen** (Danish National Archives)



# 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,
- "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)

Chile/ FONDECYT Chile)

• "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)

- "The Politics of Future Images: Visions of the Future in Dutch Scientific Advisory Councils, 1967-1980," **Tom Kayzel** (Universiteit van Amsterdam)
- "Science Fiction Meets Reality: Hannes Alfven'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)



13:30-18:00

### THATCAMP (THE HUMANITIES AND TECHNOLOGY CAMP)

Drift 21, Rm. 105



15:30-16:00

#### COFFEE BREAK

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



#### ARTICULATIONS AND DISAR-TICULATIONS: TRANSLATION, MEDICINE, AND KNOWLEDGE IN THE PREMODERN 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 Univerity)

- "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)
- "Commentary: Articulations and Disarticulations: Translation, Medicine, and Knowledge in the Premodern World, Session II," **Neil Safier** (John Carter Brown Library, Brown University)



#### AT THE CROSSROADS OF THE SENS-ES: 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)

• "The Namban Screens and the Maps of the Relaciones Geográficas De Indias: Two Visual Representations of the Global Encounters in the Early Modern Europe," **Marina Lopez** (Universidad Michoacana de San Nicolás de Hidalgo - Mexico)

- "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)
- "Henry Morton Stanley: An Explorer of Africa as a Popular Guest of Geographical Societies, 1872-1891," **Maximilian Georg** (Leibniz Institute for Regional Geography, Leipzig)



#### **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 ASTRONO-MIES 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," Luís Tirapicos (Centro Interuniversitário de História das Ciências e da Tecnologia, Faculdade de Ciências, Universidade de Lisboa)
- "The Rise of a Utilitarian Concern in Seventeenth-Century Moon-Mapping: The Case of Giovanni Domenico Cassini's Grande Carte de la Lune (1679)," **Antoine Gallay** (University of Geneva / University Paris-Nanterre)



### 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)



#### PAST, PRESENT, AND FUTURE: SCIENCE STUDIES AND THE HISTORIAN'S ROLE IN CON-TEMPLATING THE FUTURE

Janskerhof 2-3, Rm. 013

Moderator: **Emily T. Hamilton** (University of Massachusetts, Amherst)

Organizers: **Emily T. Hamilton** (University of Massachusetts, Amherst) and **Luis Campos** (University of New Mexico)

- "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)

- "Semantics of Biofacts: Introducing Atomic Agriculture in Africa," **Karin Zachmann** (Technical University of Munich)
- "Commentary: Reshaping Nature: Atomic Agriculture in the Cold War Era," Angela N. H. Creager (Princeton University)



### SCIENCE AND MEDICINE IN THE TWENTIETH CENTURY

Drift 25, Rm. 303

Moderator: **Olival Freire** (UFBA - BRAZIL)

- "Staying Home: Modernity, Science, and the Absence of Hospital Birth in the Netherlands, 1918–1940," **Hieke Huistra** (Utrecht University)
- "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)
- "The Malingering Ear: Audiometric Surveillance in the Early Twentieth Century United States," **J. Martin Vest** (University of Michigan)
- "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)



18:30-19:15

#### **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
- Margarget 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 <a href="https://hss.ncbi.nlm.nrg/about/honors/">hssonline.org/about/honors/</a>



#### HSS DISTINGUISHED LECTURE: THOMAS KUHN, EAR WITNESS, FIELDWORK AND THE MAKING OF A NEW HISTORY OF SCIENCE

Dom Church, Domplein

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

Speaker: Anke Te Heesen

(Humboldt-Universität zu Berlin)



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.



20:30-21:30

#### **HSS PRIZE RECEPTION**

Pandhof, Domplein

Join us in celebrating our prize winners with hors d'oeuvres and drinks.

Sponsored by Wiley



#### 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 CATEGO-RIES 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)
- "Classifying Animals: Aristotelian Zoology in Thirteenth-Century Latin Scholasticism," **Dominic Nicolas Dold** (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-Emcompassing
  Philosophy," Anne-Laurence
  Caudano (University of Winnipeg)
- Panel Discussion: "Classifications and Categories in the Early Sciences,"



#### COSMIC STORIES: ASTROPHYSICS AND THE INVENTION OF COSMOLO-GY 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: CHEM-ICALS 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," **Sthira 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. 302

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-Chattanooga)
- "A Standardized Vernacular or a Vernacular Standard? The Position of Swahili in the Early Twentieth Century," Morgan Robinson (Mississippi State University)
- "A Language for National Development: The Computer Literacy Program at Starehe Boy's Centre and School, 1980-1990," Ray Thornton (Princeton 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)

- "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)
- "Looking for Moral Congeniality: Lust, Love, and Physical Bodies in Eighteenth-Century Spain," Elena Serrano (Max Planck Institute for the History of Science, Berlin)
- "Commentary: The Epistemology of the 'Match,'" **Dan Bouk** (Colgate 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 COMMUNI-CATION 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, LIBRAR-IES, AND MUSEUMS (CALM) CAU-CUS: ORGANIZATIONAL MEETING

Drift 21, Rm. 005



#### **BEYOND THE SHADOW OF THE TELESCOPE: RECONTEXTU-ALIZING 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)



#### **EARLY SCIENCE FORUM BUSINESS MEETING**

Drift 25, Rm. 103



#### **INFORMATION SESSION: PUBLISH-**ING OPPORTUNITIES IN THE HISTO-RY 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 BE-TWEEN 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** 



#### 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)
- "Looking for Longevity? Intersections of New Science and the Improvement of the Body," **Vitus Huber** (Ecole des Hautes Etudes en Sciences Sociales, Paris)



#### **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)



### 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"



#### **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)



#### PEOPLE, SCIENCE, AND ENVI-RONMENT IN LATIN AMERICA

Drift 25, Rm. 302

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

Organizer: **Sophie Brockmann** (De Montfort University, UK)

- "Dry Subjects: The Collection of "Artificial" and "Natural" Mummies from Peru in the Nineteenth Century History of Science," **Christopher Heaney** (Penn State - University Park Campus)
- "Charting an Environmental Frontier: The Hydrographic Expeditions of Colonial Spanish America to the Western Patagonian Channels (1760s-1790s)," Natalia Gándara Chacana (University College London)

- "Eighteen Years in the Paraná: Explorations of Latin American Nature by Diego de Alvear y Ponce de Leon," **Matthew Franco** (College of William and Mary)
- "The (Banana) Landscape and Archaeology in Central America, 1890-1940," Sophie Brockmann (De Montfort University, 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)
- "Measuring Minds: Boring, Skinner, McGregor, and Stevens, and the Origins of Operationism," Sander Verhaegh (Tilburg University)



#### SCIENCE IN THE NINE-TEENTH 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)



#### **UN-TELLING 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 Schlagintweit 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)



13:30-18:00

#### THATCAMP (THE HUMANITIES AND TECHNOLOGY CAMP)

Drift 21, Rm. 105



15:00-16:00

#### **HSS COMMITTEE ON EDU-**CATION AND ENGAGEMENT **ANNUAL MEETING**

Drift 25, Rm. 103



15:30-16:00

#### COFFEE BREAK



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



#### 16:00-18:00

#### **BEING SCIENTIFIC IN THE 1970S:** SCIENCE AND SOCIAL RESPON-SIBILITY 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)



#### HISTORY OF SCIENCE EDUCATION AS HISTORY OF SCIENCE: OBJEC-TIVES, 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)



# 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)

- "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)
- "The Inspiration Machine: Positive Pressure and the Boundaries of the Breathing Self," **Oriana Walker** (Max Planck Institute for the History of Science)



### 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)
- "Designing for Diabetes:
   Objects, Practices, and Marketing of Diabetic Self-Monitoring
   Apparatus in the Second Half of the 20th Century," Elizabeth

   Neswald (Brock University)
- "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. Penttinen (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 Schoenstein** (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)  "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 MEDIE-VAL 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-Farghānī'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)
- "On Transmitting, Transcribing, and Arranging Astronomical Knowledge in 14th/15th Century Byzantine Manuscripts," Alberto Bardi (Independent scholar)

• "Commentary: Texts and Contexts of Medieval Astronomy and Astrology: Structures, Instructions, and Teaching Strategies," **Rich Kremer** (Dartmouth College)



18:30-20:00

#### ELIZABETH PARIS PUBLIC EN-GAGEMENT LECTURE: IN EUROPE

Railway Museum, Maliebaanstation 16

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

- "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

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.

Einstein Papers Project at Caltech.



#### 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)

- "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)



#### 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)

- "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)
- "Docteur Doyen's Photographic Anatomy Show: Objectivity, Showmanship, Difference, and the Reinvention of the Anatomical Image in Belle Époque France," **Michael Sappol** (Uppsala University)
- Panel Discussion: "Anatomical Representation and Bodily Difference in the Long-Nineteenth Century"



AS ABOVE, SO BELOW: ASTROL-OGY, 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 Galileian Astrology," **Rodolfo Garau** (Università Ca' Foscari Venezia, ERC EarlyModernCosmology)
- "Anachronizing Astrology: Philosophic Prophecy in the Enlightenment," **Steven Vanden Broecke** (Ghent University)



CROSS-CULTURAL INTERACTIONS
ACROSS TIME: IMPERIAL ENTANGLEMENTS AND THE MAKINGS OF
NATURAL, MEDICAL, AND CULTURAL
KNOWLEDGE FROM THE EARLY
MODERN TO THE MODERN PERIOD

Drift 25, Rm. 002

Moderator: **Pablo Gómez** (University of Wisconsin-Madison) and **Minakshi Menon** (Max Plank Institute for the History of Science, Berlin)

Organizers: **Genie Yoo** (Princeton University) and **Sebestian Kroupa** (University of Cambridge)

- "Georg Joseph Kamel (1661-1706): Natural and Medical Knowledge in Transit between the Philippines and Europe," Sebestian Kroupa (University of Cambridge)
- "The World in One Recipe? Noël Vallant (1632–1685) and Non-European Remedies in Seventeenth-Century Paris," **Dorit Brixius** (Institut historique allemand Paris)
- "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)



#### INSTRUMENTAL DELIVERY: ENACTING OBJECTS AND ENTANGLING BODIES IN OBSTETRICS (1700-1930)

Drift 25, Rm. 301

Moderator: Mary Terrall (UCLA)

Organizer: Scottie Buehler (UCLA)

"Curving the Pelvis: André
Levret and the Obstetrical Forceps,"
 Scottie Buehler (UCLA)

- "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)



# NATURALIZATION OF THE MIND AFTER LOCKE

Drift 25, Rm. 003

Moderator: **Chris Meyns** (Descartes Centre, Utrecht University)

Organizer: **Kathryn Tabb** (Department of Philosophy, Columbia University)

- "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))



#### 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)

- "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** (Philipps-Universität 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)



#### 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)
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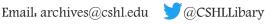
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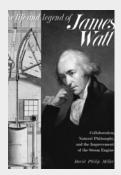
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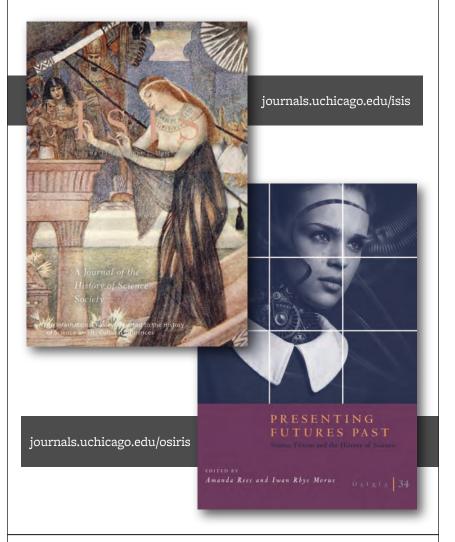
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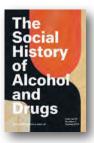


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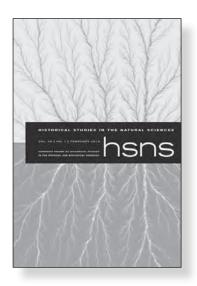
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