

18-21 NOVEMBER, 2021

HSS 2021 ANNUAL MEETING

ONLINE



For the most current program please visit
<https://bit.ly/3Eg6Qcf> or on the Cadence app.

ALL TIMES US CENTRAL STANDARD TIME

THURSDAY, 18 NOVEMBER 2021

Redistribution and Reparation in the History of Science: an Open Listening Session

11/18/2021

12:00 PM – 1:00 PM

HSS, Caucus / Forum / Interest Group Meeting

Art, Literature, and Science

11/18/2021

3:30 PM – 4:30 PM

HSS, Contributed Paper Session

Chair Marc Rothenberg

Victor Monnin, University of Strasbourg: *Rethinking the History of Paleontology While Looking at a Painting*

Frank James, *Between Dichotomies: Thomas Richard Underwood (1772–1835)*

Josephine Musil-Gutsch, Ludwig-Maximilians-Universität München: *How Microchemistry entered Art History*

Ana María Gómez López: *Ivan Efremov (1902 – 1972) and the foundations of taphonomic research in astrobiology*

Building national scientific research capacities

11/18/2021

3:30 PM – 4:30 PM

HSS, Contributed Paper Session

Chair Zuoyue Wang, California State Polytechnic University

Duim Huh, The University of Tokyo: *Deweyan Science Education in Japan: Cultivating Scientific 'Japanese Spirit' in Primary and Secondary Schools in Japan, 1931–1952*

Chihiro Yamanaka, Yokohama National University: *How Scientific Research Was Sponsored in Japan: Emergence of JSPS Focusing on Overseas Influence*

Magnus Altschäfl, LMU Munich: *The short and unhappy employment of the invisible technician – Conflict and design flaws in the Max-Planck-Institute for Biochemistry*

Chemical Mobilities (Forum for the History of Chemical Sciences Sponsored Session)

11/18/2021

3:30 PM – 4:30 PM

HSS, Organized Session

Organizer Simon Werrett, University College London

Chair Megan Piorko, Science History Institute

Yuan Yi, Columbia University: *DuPont (China), Inc.: Synthetic Dyes, Chemical Knowledge, and the Business of Color in China, 1921–1951*

Mark Chen, Harvard University: *The Translation of Chemical Knowledge in Nineteenth-Century Japan*

Nushelle de Silva, Massachusetts Institute of Technology, Department of Architecture: *The Chemistry of Administration in the Modern Art Museum*

Darwin, Evolution, and Beyond

11/18/2021

3:30 PM – 4:30 PM

HSS, Contributed Paper Session

Chair Maria Elice Brzezinski Prestes, University of São Paulo

Bartłomiej Swiatczak, University of Science and Technology of China: *Darwin within the body: Early theories of somatic evolution and their eclipse (1881–1910)*

Jan Baedke, Ruhr University Bochum: *Endosymbiosis and the Nazis: Adolf Meyer-Abich's work at the German-Dominican Tropical Research Institute*

Arya Mohan, The English and Foreign Languages University: *"To Be Esteemed by My Fellow Scientists": Examining the "Professional Man's" Rhetoric in the Origin of Species*

Liv Grjebine, Harvard University: *A Darwinian Murder: The Role of the Barré-Lebiez Affair in the Diffusion of Darwinism in 19th Century France*

Earth Sciences/Earthquakes

11/18/2021

3:30 PM – 4:30 PM

HSS, Contributed Paper Session

Chair Katherine Buse, University of Chicago

Kathryn Renton, UCLA: *Earthquake Narratives: Uses of Archival Documents in Historical Seismology*

Debjani Dutta, USC: *Tremulous Media: Nature, Technology, and the Seismic Imagination*

Expertise and Private Life in the 20th Century: Science, Communication, and Sexual Subjectivity

11/18/2021

3:30 PM – 4:30 PM

HSS, Organized Session

Organizer Teri Chettiar, University of Illinois Urbana-Champaign

Chair Isabel Gabel, University of Pennsylvania

Tinne Claes, Katholieke Universiteit Leuven: *When Expertise Precedes Science: Counseling for Donor Insemination in Belgian Fertility Clinics in the 1970s and 1980s*

Birgit Nemec, University of Heidelberg: *Risk, Responsibility, and Transformations in the Parent-Child Relationship in Reproductive Counseling in West Germany*

Teri Chettiar, University of Illinois, Urbana-Champaign: *Intimacy Expertise and the Making of Queer Relationships During Britain's Sexual Revolution*

Saniya Ghanoui, University of Illinois at Urbana-Champaign: *You Know What I Mean: Sexual Health Organizations as Expert Advice Columnists*

FHHS Distinguished Lecture and Business Meeting

11/18/2021

3:00 PM – 4:30 PM

HSS, Caucus / Forum / Interest Group Meeting

Organizer Dana Simmons

Genres of Scientific Knowledge

11/18/2021

3:30 PM – 4:30 PM

HSS, Organized Session

Organizer Daniela Barberis, North Central College

Chair Emily Hutcheson, University of Wisconsin Madison

Julia Reed, *A Doctor's Note: Paolo Zacchia and the Development of Medico-legal Consilia*

Alyssa Peterson, *The Localization and Embodiment of the Environment in Early South Carolina Medicine*

Daniela Barberis, North Central College: *"It Is Only What Comes from Us That Is Of Value:" Creating Sociology Through Book Reviewing*

Sophia Graefe, : *Fictional Writing and Listening – The "Verein für Museen" of Biologist Günter Tembrock*

New Perspectives on Soviet Science and Society

11/18/2021

3:30 PM – 4:30 PM

HSS, Organized Session

Organizer Michael Coates, University of California, Berkeley

Chair Pey-Yi Chu, Pomona College

Michael Coates, University of California, Berkeley: *Making Knowledge Soviet: On the History of the Great Soviet Encyclopedia*

Clarissa Ibarra, University of California, Berkeley: *The "Second" Encounter: Cuban-Soviet scientific collaboration in the National Atlases, 1960-1979*

Mirjam Voerkelius, University of Maryland, Baltimore County: *Darwinism, Revolution, and the Moscow Darwin Museum*

Pey-Yi Chu, Pomona College: *Commentary on "New Perspectives on Soviet Science and Society"*

Remedy without a cause – towards a history of symptomatic treatment

11/18/2021

3:30 PM – 4:30 PM

HSS, Organized Session

Organizer Lisa Haushofer, University of Zurich

Chair Lisa Haushofer, University of Zurich

Annelie Drakman, Stockholm University: *Differentiating between preventive, symptomatic and curative goals of bloodletting to explore its skyrocketing popularity in early nineteenth century medicine*

Elin Björk, Independent researcher: *The double-edged sword – the Use of Catheters as Symptom Relief in late 19th century Anglo-American Prostate Medicine.*

Lisa Haushofer, University of Zurich: *Symptomatic treatment and the measurement of "steroid phobia"*

Standardization and Measurement from the Ancient World to the Early 20th Century

11/18/2021

3:30 PM – 4:30 PM

HSS, Contributed Paper Session

Chair Henk Kubbinga, University of Groningen

Roland Boucher, Retired: *Ancient Measurement*

Biying Ling, University of Chicago: *Helmholtz on color space and the foundation of measurement*

E. Prasad Venugopal, University of Detroit Mercy: *More Dangerous Than Gunpowder: The Social History of Early Kerosene Standards in the US*

Theology, Eugenics, and Constructions of Science and Medicine

11/18/2021

3:30 PM – 4:30 PM

HSS, Contributed Paper Session

Chair Matthew Stanley, New York University

Elisabeth Yang, Rutgers University: *Constructing Moral Babies: Science and Theology in American Medical Discourse, 1880s–1920s*

Branden McEuen, Wayne State University: *Eugenics as Preventive Public Medicine in Michigan*

Vincent Auffrey, IHPST, University of Toronto: *“Pour l’amélioration de la race humaine”: The Reception of Eugenics in the French–Canadian Press, 1912–1921*

Nathan Bossoh, UCL: *Christian “universalism” and the non-Western “other”: science, religion and racial boundaries*

We, The (Spacefaring) People: Vernacular Participation in Space Science & Exploration

11/18/2021

3:30 PM – 4:30 PM

HSS, Organized Session

Organizer Peter Kleeman, Space Age Museum

Chair Michael Neufeld, Smithsonian National Air and Space Museum

Peter Kleeman, Space Age Museum: *SNAPSHOTS OF THE SPACE AGE: VERNACULAR IMAGES OF PUBLIC PARTICIPATION IN SPACE EXPLORATION*

Dr. Emily Margolis, Smithsonian National Air and Space Museum: *Houston Honors the Space Age: The National Space Hall of Fame, 1965–1969*

Jieun Shin, Samsung Institute of Advanced Technology: *Nostalgic Monument to Education Center: The History of Planetarium in Washington, D.C.*

Jennifer Levasseur, Smithsonian Institution: *Celebrating a Permanent Human Presence in Space*

PLENARY: Land Acknowledgement and Opening Plenary (Joint)

11/18/2021

5:45 PM – 7:30 PM

Joint with SHOT, Plenary

FRIDAY, 19 NOVEMBER 2021

Ancient Arabic and Chinese worlds

11/19/2021

9:00 AM – 10:00 AM

HSS, Contributed Paper Session

Chair Elaine Leong, University College London

Iman Darwish, Harvard University: *The Illustrated Arabic Botanical tradition of Dioscorides de Materia Medica*

Sean Bradley, University of Washington: *Challenges to Identifying Ancient Substances in Chinese Materia Medica*

Bianca Grier, University of Toronto: *Healing in the Village: A Taxonomy of Medical Practitioners in the Workmen's Village of Deir el-Medina*

Constructing/Deconstructing Race

11/19/2021

9:00 AM – 10:00 AM

HSS, Contributed Paper Session

Chair Clare Kim, University of Illinois at Chicago

Monica Libell, Lund University: *Time and Culture in Carl Linnaeus' Ethno-racial Classifications*

Erica Torrens, Universidad Nacional Autonoma de Mexico: *The natural system and its relation to the process of racialisation in nineteenth-century Mexico through visual representation*

Kelsey Henry, Yale University: *"This milestone in their development as property": Racially Stratified Child Development, 1820 – 1865 U.S.*

Kelsey Henry Yale University

Aparna Nair, University of Oklahoma–Norman: *"Swadeshi" Spectacles, Eye Preservers and Dark Glasses: Race, Disability and Vision Aids in British India*

When History of Science and Technology is Difficult History

11/19/2021

9:00 AM – 10:00 AM

Joint with SHOT, Roundtable

Organizer Aimee Slaughter, Los Alamos Historical Society

Chair Aimee Slaughter, Los Alamos Historical Society

Animals in/as Technologies

11/19/2021

9:00 AM – 10:00 AM

Joint with SHOT, Organized Session

Organizer Brad Bolman, Stevanovich Institute on the Formation of Knowledge, University of Chicago

Chair Miguel Garcia Sanco Sanchez, University of Edinburgh

Anin Luo, Princeton University: *Animal Anxieties: The Dual Emergence of Experimental Biology and Animal Protection in Republican China*

Gina Surita, Princeton University: *The "Muscle Machine" in the Work of German Biochemist Otto Meyerhof, 1919–1930*

Claire Webb, Berggruen Institute: *Animals as Technologies in Outer Space*

Bradley Bolman, Stevanovich Institute on the Formation of Knowledge, University of Chicago: *The Dog in the Machine: Beagles, Computers, and Drugs*

Dueling with Data: Fairness by Calculation in the Law

11/19/2021

9:00 AM – 10:00 AM

Joint with SHOT, Organized Session

Organizer Michael McGovern, Princeton University

Chair William Deringer, Massachusetts Institute of Technology

Pariroo Rattan, Harvard University: *Dueling Economists and Discriminating Models: Law and Statistics in 21st Century America*

Michael McGovern, Department of History, Princeton University: *The Strange Career of Jim Crow Statistics: Jury Selection in New Deal America*

Cleo Chassonnery-Zaïgouche, University of Cambridge: *"Contested Rationalities: Economic Expertise in the Comparable Worth Controversy, 1979–1989*

Ciara Kennefick, University of Oxford: *Mathematics and Fairness in French Contract Law, 1700 to 1850*

Geographies of disease

11/19/2021

9:00 AM – 10:00 AM

HSS, Contributed Paper Session

Chair Margaret Schotte, York University

Lauren Killingsworth, Yale University: *"With Maps Illustrative of the Disease": Medical Cartography in Late Nineteenth-Century Colonial India*

Jennifer Derr, UCSC: *Building a Science of the Post-Colonial Body in Egypt*

Sarah Naramore, Northwest Missouri State University: *Iodine and Endemic Goiter. A Specific Therapy in a Changing Medical World*

Emma Broder, Harvard University: *"The Anatomy of the Epidemic": Neuromyasthenia and Epidemiological Rationality, 1956–1965*

Molecular Biology/Genetics

11/19/2021

9:00 AM – 10:00 AM

HSS, Contributed Paper Session

Chair John Emrich, The American Association of Immunologists

Neeraja Sankaran, Utrecht University: *Maclyn McCarty, the Transforming Principle & Dnase: Clinching Evidence For DNA as the Material Basis of Genes*

William Summers, Yale University: *Death by Radiation: The Debates on the "Critical Radiosensitive Target"*

Pnina Abir-Am, Brandeis University: *Strategies for securing priority in the discovery of RNA splicing and their ramifications.*

Kyrie Greenberg, University of Minnesota Twin Cities: *Dance of the Genome*

Natural History Collections and Empire (1)

11/19/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Andreas Weber, University of Twente

Chair Andreas Weber, University of Twente

Lauren Williams, McGill University: *The American Black Parrot: Exploring an 18th-century Paper Museum*

Whitney Barlow Robles, Dartmouth College: *The Kitchen in the Cabinet: Histories of Food and Natural Science*

Dr. Charmantier, The Linnean Society of London: *Empire and the Linnean Society Botany collections*

Luciana Martins, Birkbeck, University of London: *Resources of hope: reactivating Indigenous biocultural knowledge*

The Boundaries of Human Bodies in the Early Modern World

11/19/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Tawrin Baker, University of Notre Dame

Chair María Portuondo, The Johns Hopkins University

Tawrin Baker, University of Notre Dame: *Early Modern Images of the Eye and the Borders Between the Artificial, the Natural, and the Mathematical*

Pablo Gomez, University of Wisconsin: *Accounting for Bodies: Slave Trading and Medical Arithmetic in the Early Seventeenth-Century Iberian Atlantic*

Anita Guerrini, Oregon State University: *Monster Theory and the Problem of Giants*

Daniel Margocsy, University of Cambridge: *Worms*

The Science of Violence in 20th-Century North America: Experts and their Public

11/19/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Stephanie Pache, UQAM

Chair Elizabeth Lunbeck, Harvard University

Debbie Weinstein, Brown University: *"Wars begin in the minds of men": UNESCO and the scientific study of violence, war, and peace*

Nadine Weidman, Harvard University: *The Killer Instinct: an idea and its reception in 1960s America*

Stephanie Pache, UQAM: *Politics of Sexual Violence: The Psychology of Consent in Contemporary North America*

Underground Labor: Earth Workers, Evidence, and Erasure

11/19/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Patrick Anthony, Vanderbilt University

Chair Lukas Rieppel, Brown University

Patrick Anthony, Vanderbilt University: *Prussian Miners, Creole Surveyors & Siberian Convicts: A Labor History of Humboldtian Science*

Jeremy Vetter, University of Arizona: *The Field Man: Skill and Identity in Underground Scientific Research at Dinosaur National Monument and Agate Fossil Beds*

Paige Madison, Natural History Museum Denmark: *The Unknown Discoverers: Scientific Practice and Knowledge Production in Postcolonial Indonesia*

Working Theories: The Human Sciences and Motivation to Labor in the Twentieth Century

11/19/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Simon Torracinta, Yale University

Chair Dana Simmons, University of California, Riverside

Nima Bassiri, Duke University: *Simulation, Industrial Labor, and Economic Pathologies circa 1900*

Danielle Judith Carr, Columbia University: *It made human life seem like the worst kind of wage labor": Imagining the Motivation to Produce From Behaviorism's Stimulus-Wage to Cognitivism's Innate Creativity*

Simon Torracinta, Yale University: *Time, Labor, and Motivation in Midcentury Economics*

Charles Petersen, Cornell University: *The 100xr Road to Neoliberalism: Engineers, Meritocracy, and Economic Inequality, 1950–2000*

Breakdown of the Productive Self: Work Sciences and Industrial Affect in the Twentieth Century

11/19/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Sam Schirvar, University of Pennsylvania

Chair Jennifer Alexander, University of Minnesota

Jiemin Tina Wei, Harvard University: *Ameliorating Worker Fatigue through the Body's Motions and Pauses: Frank and Lillian Gilbreth's 'Motion Studies'*

Victor Seow, Harvard University: *"To Advance Innovation and Invention, to Agitate for a Technological Revolution": Labor Psychology in the Early People's Republic of China*

Sam Schirvar, University of Pennsylvania: *The Politics of Stress: Human Factors Engineering, Occupational Health, and Air Traffic Control, 1968–1981*

Building Race into the Machine: The Ongoing Challenges of “Big Data”

11/19/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Erik Peterson, University of Alabama

Chair Iris Clever, University of Chicago

Abigail Nieves Delgado, Utrecht University: *Making Race (Ir)relevant: Historical Biases in Facial Recognition Technologies*

Erik Peterson, University of Alabama: *Afraid of the Dark: Making the First ‘Index of Nigrescence’ (1850s–1900)*

Catherine Stinson, Queen's University, Kingston: *The artifice of AI mindreading*

Iris Clever, University of Chicago: *Tracing race in forensic anthropological data practices: the case of Fordisc*

Chemical Pasts and Chemical Futures

11/19/2021

11:00 AM – 12:00 PM

HSS, Organized Session

Organizer Alison McManus, Princeton University

Chair Evan Hepler-Smith, Duke University

Vaibhav Pathak, Indian Institute of Science Education and Research, Mohali: *The Issues of Authority and Discovery in Roald Hoffmann and Carl Djerassi's play Oxygen (2001)*

Jessica Varner, USC Society of Fellows: *But Only from Ethylene: Extending Uncertain Culpabilities of Oil and Gas By-Products to Architecture*

Colleen Lanier-Christensen, Harvard University: *Making Toxicology Good: Regulating Laboratory Practice and Chemical Knowledge*

Kwame Edwin Otu, *E-Waste as Archive: Unsettling Technological Humanitarianism in Neoliberal Ghana*: *E-Waste as Archive: Unsettling Technological Humanitarianism in Neoliberal Ghana*

Clinical Research

11/19/2021

11:00 AM – 12:00 PM

HSS, Contributed Paper Session

Chair Carolyn Shapiro-Shapin, Grand Valley State University

Pavel Vasilyev, HSE University: *Balancing Knowledge Reliability and Ethical Acceptability at the Moscow Institute for New Antibiotics, 1950s–1970s*

Michelle LaBonte, Harvard University: *Missing Mutations: Diagnostic Uncertainty in Carrier Screening for Cystic Fibrosis*

Hein Brookhuis, KU Leuven: *"Big Science coming in Small Pieces" – the Belgian Nuclear Research Center and the growth of nuclear medicine in Belgium (1990 – 2020)*

Fedir Razumenko, University of Calgary: *Three Dimensions in the Interpretation of Oncologic Clinical Trials: physician–investigators, biomedical evidence, and patient–participants*

Death in the Time of Cholera: Bureaucracy, the State and Contested Communications in Nineteenth-Century Spain and the Ottoman Empire

11/19/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Alex Schweig, University of Arizona

Chair Alex Schweig, University of Arizona

Isacar A. Bolaños, California State University, Long Beach: *Disease and the State in Late Ottoman Iraq, 1821–1899*

Ruth A. Oropeza, University of Arizona: *Sanitation in the time of Cholera: Spain, Epidemics and the Dirección General de Beneficencia y Sanidad, 1830–1860*

Alex Schweig, University of Arizona: *Contested Quarantines and Interruptions: The Effects of Cholera on Late Ottoman Mobilities*

Explaining Everything: Models, Machines, and Black Boxes in Histories of Science and Technology

11/19/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Lan Li,

Chair Elizabeth Patrick,

Rodolfo Alaniz, University of Texas at Austin: *Body Boxes: Sexual Inversion and the Embodiment of Sexual Selection*

Jan Mueggenburg, Leuphana University Lüneburg: *Functional Boxes: UNIFACE, the Personal Computer, and Accessibility in 1990s Germany*

Lan Li, Rice University: *Battery Boxes: Cyborg Connections and Cesarean Sections in Colombo (1962–1985)*

Els Woudstra, Rice University: *The Boxed Gut: Human Waste Production and Digestive Anxiety in the United States (1951–1979)*

Flashtalks

11/19/2021

11:00 AM – 12:00 PM

Joint with SHOT, Flashtalks

Chair Jan Golinski, University of New Hampshire, Arwen Mohun, University of Delaware

Eva Molina, Princeton University: *"These Interesting Remains": The Collinson Adze and the Limits of Imperial Science in the Age of Polar Exploration*

Taylor Coplen, Harvard University: *Soft Skills and Soft Power: American and Japanese Education Efforts in China (1895–1911)*

Jacob Green, Jacob Green: *William James' Network and Mind-altering Drug Research*

Madison Renner, Harvard University: *Carbon Credit: How a Change in Citation Practices Linked Charles Keeling's Name to CO2 Data*

Histories of Evolutionary Thinking about Social Things

11/19/2021

11:00 AM – 12:00 PM

HSS, Organized Session

Organizer Cameron Brinitzer, University of Pennsylvania

Chair Erika Milam, Princeton University

Michael Pettit, York University: *How Faces Became Special (When Maybe They are Not)*

Tara Suri, Princeton: *Security, Territory, Primate: Rhesus Monkeys and the Politics of Development in Postcolonial India*

Cameron Brinitzer, University of Pennsylvania: *Social Learning Mechanisms: The Evolution of Culture and Its Sciences*

Histories of Science and Capitalism in Latin America and the Caribbean

11/19/2021

11:00 AM – 12:00 PM

HSS, Roundtable

Organizer Jordan Howell, Harvard University

Chair Stuart McCook, University of Guelph

Laser Focus: Planning, Modeling, and Implementing Interferometry to Illuminate the Science–Technology–Policy Interface

11/19/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Connemara Doran, Harvard University

Chair Theresa Levitt, University of Mississippi

Connemara Doran, Harvard University: *Precision Interferometry from Fizeau and Michelson to the Cosmic First Light*

Tiffany Nichols, *More Than Models: Prototypes as Historical Records of the Evolving Epistemic Understandings of the Future Object of Study*

Daniel Kennefick, Univ. of Arkansas: *Lasers in Space: A Preliminary Focus on the History of LISA, the Proposed Space-Based Gravitational Wave Detector*

Natural History Collections and Empire (2)

11/19/2021

11:00 AM – 12:00 PM

HSS, Organized Session

Organizer Andreas Weber, University of Twente

Chair Fenneke Sysling, Leiden University

Sofia Boanova Viegas, CIUHCT– FCUL, University of Lisbon; Museum of Natural History and Science, University of Porto: *African Herbarium Collections: A Trigger to Uncover ‘Colonial Botany’ at University of Porto.*

Melanie Boehi, Wits Institute for Social and Economic Research: *Revisiting empire in a Southern African plant collections*

Chanelle Adams, University of Lausanne: *Empirical Aims, Empire Gains: Knowledge regimes in the Madagascar herbarium collection at Marseille’s Colonial Institute*

Martha Fleming, Natural History Museum of Denmark: *Colonialities of the storeroom: provenance matters in natural history collections*

Reassessing Earth History, Deep Past, and Questions of Origins in the Long Eighteenth Century

11/19/2021

11:00 AM – 12:00 PM

HSS, Roundtable

Organizer Ivano Dal Prete, Yale University

Chair Lydia Barnett, Northwestern University

Roundtable: IsisCB Pandemics Issue

11/19/2021

11:00 AM – 12:00 PM

HSS, Roundtable

Organizer Stephen Weldon, University of Oklahoma

Chair Stephen Weldon, University of Oklahoma

Science in the U.S. South

11/19/2021

11:00 AM – 12:00 PM

HSS, Organized Session

Organizer Jeremy Montgomery, Mississippi State University

Chair Matthew Lavine, Mississippi State University

Michael Gunther, Georgia Gwinnett College: *"Southern Nationalists and the Early Smithsonian"*

Paul Lucier, Independent: *A Failure of Northern Science in Southern Reconstruction*

Jeremy Montgomery, Mississippi State University: *The Science of Southern Medicine: Disease Theory and the U.S. South*

Ronald Mickens, Clark Atlanta University: *Evolution of Physics Research and Graduate Education in the South: A Case Study – Fisk University*

The Digital and the Encyclopedic: New Tools for Open-Access History of Science

11/19/2021

11:00 AM – 12:00 PM

HSS, Roundtable

Organizer Christopher Phillips

Chair Christopher Phillips

FUTURES: Making and Doing History: On Non-Traditional Modes of Critical Engagement

11/19/2021

12:45 PM – 1:45 PM

Joint with SHOT, Roundtable

Organizer Crystal Lee, MIT

Chair Crystal Lee, MIT

Ancient Greek and Roman sciences and their transformations in the Medieval and Early Modern periods

11/19/2021

2:30 PM – 3:30 PM

HSS, Contributed Paper Session

Chair Anne-Laurence Caudano, University of Winnipeg

Carl Philipp Nothaft, Trinity College Dublin: *The Practice of Latin Astronomy in the High Middle Ages*

Verity Walsh, Stanford University: *Scientific and 'Common-Sense' Geographies on Eratosthenes's World Map: A Hybrid Approach*

James Brannon, Independent Scholar: *The Sphere of Anthony Ascham: Sources for the Earliest Known English-Language Cosmography Based on Sacrobosco's De Sphaera*

FUTURES: The Future of Open Access in the History of Science, Technology, and Medicine

11/19/2021

2:30 PM – 3:30 PM

HSS, Roundtable

Organizer Jeremy Green, Johns Hopkins University

Gender and Work in the Mathematical Sciences

11/19/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Andrew Fiss, Michigan Technological University

Chair Ellen Abrams, Cornell University

David Dunning, University of Oxford: *"Real Working Men": Performing Gender in Nineteenth-Century Mathematical Logic*

Laura Fiss, Michigan Technological University: *"The Paper for Practical Men": Transnational Constructions of Engineering Identities through Periodicals*

Andrew Fiss Michigan Technological University

Milena Kremakov, Martin-Luther University of Halle-Wittenberg: *Men play, women care? The different experiences of "becoming a mathematician" among contemporary male and female early career mathematicians*

Tori Reeder, Michigan Technological University: *Subjectivity, Epistemology, and Quantum Theory: Making Way for Intersubjectivity*

Health and Computation Before the Internet

11/19/2021

2:30 PM – 3:30 PM

Joint with SHOT, Organized Session

Organizer David Theodore, McGill University, Theodora Vardouli, McGill University

Chair Hannah Zeavin, University of California-Berkeley

Julie Zook, Texas Tech University: *Hospital Architecture and the Geometry of Nurse Paths*

David Theodore, McGill University, Theodora Vardouli, McGill University: *Simulating Surgery ca. 1970*

Jeff Nagy, Stanford University: *Hardening Feeling: Computing Psychiatric Data at Rockland State, 1960–1972*

Rachel Plotnick, Indiana University: *Care and Feeding for the Computer: Imagining Machines' "Preventive Medicine"*

Histories of the Less-than-known: Questions of Risk and Uncertainty in Global 20th Century Science

11/19/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Aaron Van Neste, Harvard University

Chair Aaron Van Neste

Rachel Bunker, Rutgers University: *"Many Anomalies Which I Cannot Explain:" Early Twentieth-Century Actuarial Science and the Making of the Semi-Tropics*

Miriam Rich, Yale University: *"The Power to Become a Monster": Pregnancy as a Site of Risk in Early Twentieth-Century Biology and Medicine*

Aaron Van Neste, Harvard University: *"They Rarely Remain Steady for Long": Fluctuations of Marine Species and the Question of Sustainable Fisheries*

Intellectual Property, National Security, and the Anglo-American Hegemonic Transition, 1914–1945

11/19/2021

2:30 PM – 3:30 PM

Joint with SHOT, Organized Session

Organizer Katherine Epstein, Rutgers University–Camden

Chair Margaret Graham, McGill University, emerita

Kathryn Steen, Drexel University: *Radio, U.S. Patent Law, and World War I*

Kate Epstein Michael Falcone Margaret Graham (the one who might need to be remote)

Michael Falcone, Yale University: *The Politics of Erasure: Memory, Technology, and Institutions in Second World War-era Anglo-American Diplomacy*

Katherine Epstein, Rutgers University–Camden: *Yesterday's China: US Patent Law and Anglo-American Technology Transfer*

Is Psychoanalysis All There Is? A History of Psychotherapy in Britain and the USA

11/19/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Hannah Blythe, University of Cambridge

Chair Hannah Blythe, University of Cambridge

Hannah Blythe, University of Cambridge: *Lay and Professional Expertise in Developing Psychotherapy in British Charities*

Riana Betzler, Washington University in St. Louis: *The Evidential Basis of Psychotherapy: Expansive and Tacit*

Sarah Marks, *CBT, Evidence-Based Medicine and Policy-Making in Britain, 1948–2010*

Making Sense of the World: A Roundtable on Science, Technology & the Senses

11/19/2021

2:30 PM – 3:30 PM

Joint with SHOT, Roundtable

Organizer Gabriella Petrick, University of Stavanger

Chair Gerard Fitzgerald, George Mason University

Psychology and theories of the mind

11/19/2021

2:30 PM – 3:30 PM

HSS, Contributed Paper Session

Chair Jeremy Blatter, Drew University

Mason Tattersall, Oregon State University: *T. Meynert's Diseases of the Forebrain: Art, Science, & Speculation in Systems of Understanding Neuropathology*

Francesca Brittan, Case Western Reserve University: *Orchestras of the Mind*

Grace Huckins, Stanford University: *The Other Neuron Doctrine: Changing Modes of Explanation in Psychology in the 20th Century*

Racialized Knowledges: Epistemology, Difference, and Sciences Beyond the Western Teleologies

11/19/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Patrícia Martins Marcos, UC San Diego / Universidade Nova de Lisboa

Chair Patricia Marcos, Surekha Davies

Sarah Qidwai, University of Toronto: *De-centering the History of evolutionary thought and theories of origin in the nineteenth century*

Patricia Marcos, University of California San Diego: *Racialized Knowledges: Manipulating Nature, Blackness, and Epistemic Disciplining in the Portuguese Inquisition.*

Taylor Moore, University of California, Santa Barbara: *Of Seashells and Sand: Racing and Erasing Superstition in Khedival Egypt*

Regeneration as a Boundary Concept: Dialogues between Basic and Applied Biology in the Long Twentieth Century

11/19/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Kathryn Maxson Jones,

Chair Jane Maienschein, Arizona State University

Kathryn Maxson Jones, Princeton University/Baylor College of Medicine: *Neuron Regeneration, Experimental Organisms, and the Curious Case of the Lamprey in 20th-Century Neurobiology*

Kate MacCord, Arizona State University: *The Historical Roots of a Flawed Assumption: How the History of Germline Research Reifies and Undermines the Human Genome Editing Debate*

Frederick R Davis, Purdue University: *A Bird's Eye View: Regeneration at the Ecosystem Level*

Science in the Public Space

11/19/2021

2:30 PM – 3:30 PM

HSS, Contributed Paper Session

Chair Axel Jansen, German Historical Institute Washington

Moynahan Gregory, Bard College: *James Joyce, Giordano Bruno, and the Scale of the Universe: Popular Science and Historical Epochs*

Leslie Digdon, Saint Mary's University: *"He Didn't Want to Know": Scientific Literacy and Scientific Authority in Remote and Rural Communities in the 1980s*

Taner Edis, Truman State University: *Tides of Irrationality*

Sound and Color as Infrastructure: Electrifying the Built Environment in the Long 20th Century

11/19/2021

2:30 PM – 3:30 PM

Joint with SHOT, Organized Session

Organizer Linda Zeitlin Wu, University of California Berkeley

Chair Lida Zeitlin Wu, University of California Berkeley

Lida Zeitlin Wu, UC Berkeley: *"Choose Your Color": Mood Conditioning the Postwar Domestic Interior*

Carolyn Kane, Ryerson University: *The Neon Surround: History, Theory, and Technique*

Harry Burson, University of California, Berkeley: *"Producing Sonic Space: Telephony and the Emergence of Stereophonic Sound"*

Systems Thinking and Its Politics in Cold-War East Asia and Beyond

11/19/2021

2:30 PM – 3:30 PM

Joint with SHOT, Roundtable

Organizer Yize Hu, Johns Hopkins University

Chair Sigrid Schmalzer, University of Massachusetts Amherst

Sigrid Schmalzer, University of Massachusetts Amherst: *Connecting the Dots: Systems Thinking in PRC Agricultural Science and Technology, 1950s to Present*

Bo An, Yale University: *Growing Apple Trees: A History of Systems Engineering in the People's Republic of China According to Qian Xuesen (1950s–1990s)*

Yize Hu, Johns Hopkins University: *An Optimized Order: Systems Engineers' Idea of Social Governance in Postwar Japan*

Angela Xiao Wu, New York University: *Journalism via Systems Cybernetics: Reforming the Socialist Press for Modernization in 1980s China*

The Septic Fringe: Developing a History of Marginalized Species

11/19/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Matthew Holmes, University of Cambridge

Chair Joan Steigerwald, York University

Carmen Schmechel, Freie Universität: *'Putrid Feavers, Morbid Ferments': Fermentation and Putrefaction in Early Modern Iatrochemistry*

Aro Velvet, University of Southern California: *Spectacular Experiments and Yeasts of Harm: Modernizing Fermentation in French Indochina*

Brenda Kellar, Oregon State University: *Unwanted: Before the Honey Bee Became Desirable*

Matthew Holmes, University of Cambridge: *Commentary: The Septic Fringe: Developing a History of Marginalized Species*

Contagion, Viruses, and Vaccines

11/19/2021

4:30 PM – 5:30 PM

HSS, Contributed Paper Session

Chair Thomas Kepler, Boston University School of Medicine

Paul Sampson, University of Scranton: *Quarantining the Empire: The Political Economy of Airborne Contagion in Britain, 1770–1820*

Kirsten Moore-Sheeley, Cedars-Sinai; UCLA: *Chasing the Magic Bullet: The Promises and Consequences of Vaccine Research*

Adam Lawrence, SciArc: *The Unliving Invasions: A Contradiction at the Heart of Modern Virology*

Hyung Wook Park, Nanyang Technological University: *Revisiting Frank Macfarlane Burnet during the Pandemic*

Contested Collaboration in Modern and Contemporary East Asia

11/19/2021

4:30 PM – 5:30 PM

Joint with SHOT, Organized Session

Organizer Jaehwan Hyun, Pusan National University

Chair Aya Homei, University of Manchester

Jaehwan Hyun, Pusan National University: *“There Were Always Conflicts”: Writing about Collaboration with Japanese Scientists in Anti-Japanese South Korea*

Yi-Tang Lin, University of Geneva: *How to Modify Research in Regime Change? Chinese Rockefeller Fellows in Biology and Chemistry from 1949 to 1966*

Meng Zhang, Peking University: *Between Cooperation and Assimilation: Educating Chinese Medical Students in Japan’s Occupied Beijing*

Kaori Iida, SOKENDAI: *Studying Biological Effects of Radiation: Contested Collaborations of Japanese and American Scientists in the Bombed City Hiroshima*

Enlightenment Sciences and Rational Assertions of Otherness

11/19/2021

4:30 PM – 5:30 PM

HSS, Organized Session

Organizer David Spanagel, Worcester Polytechnic Institute

Chair Emily Pawley, Dickinson College

Tamara Plakins Thornton, SUNY, Buffalo, Department of History: *How to Think about Human Difference: Mathematical Geography, the “Use of the Globes,” and the Antipodes in the Early North American Spatial Imagination*

Joe Torre, *Physiology is Theology: Benjamin Vaughan and Mr. Merrick’s Freemartin*

David Spanagel, Worcester Polytechnic Institute: *Technical Collaboration After the War: Applied Sciences and the Quest to Invent a Peaceful Mexico/U.S. Boundary in the 1850s*

Faithful Representations: Observation, Mediation, and the Visual Reproduction of Nature

11/19/2021

4:30 PM – 5:30 PM

Joint with SHOT, Organized Session

Organizer Samantha Thompson, National Air and Space Museum

Chair Elizabeth Kessler, Stanford University

Katie Boyce-Jacino, Arizona State University: *“So True to Nature”: Illusion and Immersion in the Early Planetarium*

Lois Rosson, University of California, Berkeley: *Transcribing the Lunar Environment: Art, Draughtsmanship, and the USGS Moon Maps of the 1960s*

Samantha Thompson, National Air and Space Museum: *Capturing the Northern Lights: The Use of Television Cameras to Measure and Study Aurora*

Talia Shabtay Filip, Northwestern University: *Seeing the World with Super-sight: The Science Photography of Berenice Abbott*

Global Water Constructions

11/19/2021

4:30 PM – 5:30 PM

Joint with SHOT, Organized Session

Organizer Carlie Cervantes De Blois, University of Minnesota

Chair Hannah Conway, Harvard University

Hannah Conway, Harvard University: *How Infrastructures Age: Public Power, the TVA, and Environmental Justice in Memphis, TN since 1933*

Carlie Cervantes De Blois, University of Minnesota--Twin Cities: *Tsuguo Nozaki's Fieldwork and the "Collaborative" Nature of Dam-Building in the Third World*

Luna Sarti, University of Pennsylvania: *From God's Waters to Unworthy Matter: Profit, the Textile Industry and the Secularization of the Arno River in Medieval Florence*

John Doyle-Raso, Michigan State University: *"Mr. Crane, the Faithful Husband": Making an "Indicator" and "Flagship" Species for Ugandan Wetland Conservation, 1986 to Present*

Histories of Biology

11/19/2021

4:30 PM – 5:30 PM

HSS, Contributed Paper Session

Chair David Munns, John Jay College

Daniel Brooks, Ruhr-University Bochum: *The Organicist Roots of the Levels Concept, 1910-1937*

Alejandro Fábregas-Tejeda, Ruhr University Bochum: *Organismal agents for biology, intervenable populations for fisheries: the theories and practices of E.S. Russell*

Cora Stuhmann, LMU Munich: *Recognizable Fields in a Competitive World: Animal Behavior Studies from the 1960s to the 1980s*

Ian Varga, Florida State University: *Searching for Life and a Political Identity: Exobiology and the Struggle to Fund the Hunt for Extraterrestrial Life during NASA's Doldrums, 1970-1990*

History of Interpretations of Quantum Physics

11/19/2021

4:30 PM – 5:30 PM

HSS, Organized Session

Organizer Olival Freire Junior, Universidade Federal da Bahia

Chair Olival Freire Junior,

Olival Freire Junior, Universidade Federal da Bahia: *David Bohm (1917–1992) – Biography of a Major Quantum Dissident*

Flavio Del Santo, University of Vienna: *The Foundations of Quantum Mechanics in Post-War Italy's Cultural Context*

José Perillán, Vassar College: *Early Solvay Councils: Rhetorical Lenses in the Development of Quantum Theory*

Indianara Silva, *Rewriting the History of Quantum Foundations: The Madame Wu Case*

Indigenous Peoples, Settler Science, and Social Justice

11/19/2021

4:30 PM – 5:30 PM

HSS, Contributed Paper Session

Chair Richard Sorrenson, University of Auckland

Kelly McDonough, University of Texas at Austin: *Indigenous Scientific Knowledges and the Archive: Health, Illness, and Healing in the 1577 Relaciones geográficas*

Charlotte Williams, University of Pennsylvania: *The Many Roads to El Dorado: transportation infrastructures in archaeological extraction*

Alexi Baker, Yale Peabody Museum: *Instruments of Science and Social Justice: Uses for Historical Scientific Artifacts in Higher Education*

Adam Johnson, SMU: *Structure, Constraint, and Revelation in the Paper Tools of 19th Century American Ethnology*

Integrated Courses: Benefits, Challenges, and Successes

11/19/2021

4:30 PM – 5:30 PM

Joint with SHOT, Roundtable

Organizer Greg Macklem, University of Notre Dame

Chair Erik Peterson, University of Alabama

Medical Algorithms: Computing, Diagnosis, and Health in the United States

11/19/2021

4:30 PM – 5:30 PM

Joint with SHOT, Organized Session

Organizer Gerardo Con Diaz, University of California Davis

Chair Gerardo Con Diaz, University of California Davis

Andrew Lea, Johns Hopkins University School of Medicine: *Computerizing Diagnosis: Minds, Medicine, and Machines in Twentieth-Century America*

Jeremy Greene, Johns Hopkins University: *The Automated Clinic: Computerized Health Testing and the Architecture of Prevention, 1960–1980.*

Gerardo Con Diaz, University of California, Davis: *Prometheus's Patents: Owning Medical Algorithms in the 21st Century*

Hannah Zeavin, UC Berkeley: *"Auto-Intimacy: Algorithmic Therapies"*

Natural Histories

11/19/2021

4:30 PM – 5:30 PM

HSS, Contributed Paper Session

Chair Mariam Sabri, University of California, Berkeley

Celia Abele, Princeton Univ.: *Fossils as Dead Debris: Interlayering the Human and Natural Sciences*

Yotam Tsal, University of California, Berkeley: *Stilling Nature: Collecting Birds in Eighteenth-Century France*

Leore Joanne Green, University of Cambridge: *'We the tormentors, the destroyers': Death, emotions, and gender in entomology*

Matthew Laubacher, University of Arizona, Global Campus: *Scientific Reputation as Currency – the Career of the Notorious Edmund Heller*

Refusing Erasure: Historical Struggles for Liberation in the "Peripheries"

11/19/2021

4:30 PM – 5:30 PM

HSS, Organized Session

Organizer Salina Suri, Harvard University

Chair Salina Suri, Harvard University

Hina Walajahi, MIT: *Contested Memoryscapes: Mapping Histories and Landscapes of Occupation in Kashmir*

Nikhil Dharmaraj, Harvard College: *Sixteen Sutras, One Agenda: Vedic Mathematics & Its Discontents*

Osase Omoruyi, Harvard University: *The Extractive Gaze: American Astronomical Southern Stations in South Africa*

Salina Suri, Harvard University: *Capitalist-Casteist-Colonialist Crucibles: Farms in Punjab*

Technical Expertise and Doing History

11/19/2021

4:30 PM – 5:30 PM

HSS, Roundtable

Organizer Phillip Reid, Independent scholar

Chair Phillip Reid, Independent scholar

Ways of Knowing the Universe

11/19/2021

4:30 PM – 5:30 PM

HSS, Organized Session

Organizer Jaco de Swart, University of Amsterdam

Chair Jordan Bimm, University of Chicago

Jaco de Swart, University of Amsterdam: *How the Universe Went Missing: Dark Matter and the Rise of Physical Cosmology*

Luis Campos, University of New Mexico: *Blue Vegetation on the Red Planet: Soviet Astrobotany and Early Earth Analogues*

Emilie Skulberg, University of Cambridge: *The Event Horizon as a Vanishing Point: Visual Representations in Black Hole Research and Communication, 1973–2019*

Working on the Problems of Freedom and Control in American Political Culture: How the Social Sciences Became Relevant in New Ways from the 1940s to the 1970s

11/19/2021

4:30 PM – 5:30 PM

HSS, Organized Session

Organizer Mark Solovey, University of Toronto

Chair Mark Solovey, University of Toronto

Joy Rohde, University of Michigan: *Games Experts Play: Computation, Control, and Freedom in the Cold War United States*

Mark Solovey, University of Toronto: *Social Science Inquiry for What? Marcus Raskin and the Institute for Policy Studies in Post-1960s America*

Ibanca Anand, Johns Hopkins University: *'Secondhand Dealing' in Economic Ideas: A Study on The Foundation for Economic Education, 1946–1960*

Prize Ceremony

11/19/2021

6:00 PM – 7:00 PM

HSS, Plenary

Chair Jan Golinski, University of New Hampshire

Trivia Night Presented by The Linda Hall Library

11/20/2021

7:00 PM – 10:00 PM

Joint with SHOT, Social Event

Organizer Benjamin Gross, Linda Hall Library

Chair Benjamin Gross, Linda Hall Library

SATURDAY, 20 NOVEMBER 2021

Bodies, Anatomy, and Forensic Expertise

11/20/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Claire Cage, University of South Alabama

Chair Cathy McClive, Florida State University

Meghan Roberts, Bowdoin College: *Jean-Barthélemy Dazille and the Social Uses of Anatomy in the Eighteenth-Century French Empire*

Claire Cage, University of South Alabama: *Forensic Medicine on Trial in Nineteenth-Century France*

Christopher Hamlin, University of Notre Dame: *Paul Kirk Rewrites the History of (Forensic?) Science, 1964*

Cathy McClive, Florida State University: *Bodies, Anatomy and Medico-Legal Expertise-Comment*

Books, Botany and the Specimens of Nature, c. 1600–1825

11/20/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Anna Svensson, Independent Scholar (Uppsala University after September 2021)

Chair Janet Browne, Harvard University

Anatole Tchikine, Dumbarton Oaks: *Between horti sicci and herbaria viva: the individual and the type in early modern botanical representations*

Edwin Rose, University of Cambridge: *Plants, Paper and the Classification of Nature in the Cambridge Botanic Garden, 1760–1825*

Anna Svensson, Uppsala University (from 1 September 2021): *The Botany of a Bibliophile: Pressed Plants in Johan Svalberg's Flora Svecica (1755)*

Collections and Community Engagement

11/20/2021

9:00 AM – 10:00 AM

HSS, Roundtable

Organizer Benjamin Gross, Linda Hall Library

Chair Benjamin Gross, Linda Hall Library

Forgotten Genealogies: Medical Genetics and the Emergence of Human Genomics

11/20/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Miguel Garcia-Sancho, University of Edinburgh

Chair Soraya de Chadarevian, University of California Los Angeles

Miguel Garcia-Sancho, University of Edinburgh: *Sequencing, Bibliometrics and History: A 'From Below' Perspective on the Emergence of Human Genomics*

Andrew Hogan, Creighton University: *Conflicting Priorities: Genetic Counseling, Disability Advocacy, and Genomic Research*

Rebecca Mueller, University of Pennsylvania: *Prognostic Imaginaries of Cystic Fibrosis: From the trope of a cure to the reality of precision medicine*

Global Taiwan as Method: Rethinking Global Science, Technology, and Medicine

11/20/2021

9:00 AM – 10:00 AM

Joint with SHOT, Organized Session

Organizer Wayne Soon, Vassar College

Chair J. Megan Greene, The University of Kansas

Wayne Soon, Vassar College: *Making Actuarial Science Precarious: International Labor Organization and the Taiwan Health Insurance Program, 1960–1970*

Hsinyi Hsieh, UCSF: *Indigenous Species for Imperial Projects: The Taiwan Monkey as a Research Subject from Japanese Colonial Sciences to Postwar US Naval Medical Research*

Ying Jia Tan, Wesleyan University: *Taiwan as Trailblazer for Tropical Hydropower, 1919–1935*

John Hayashi, Harvard University: *History's Rhythm: Taiwanese Timber and Japanese Climate Science in the Twentieth Century*

Imagining the Darwinian Revolution from Darwin to Dawkins

11/20/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Ian Hesketh, University of Queensland

Chair Emily Kern, University of Chicago

Bernard Lightman, York University: *Early Historians of the Darwinian Revolution: Herbert Spencer and Charles Darwin*

Ian Hesketh, University of Queensland: *The Making of John Tyndall's Darwinian Revolution*

Vassiliki Betty Smocovitis, University of Florida: *Rewriting the Past, Rewriting the Theory: The Extended Evolutionary Synthesis and its Discontents*

Jamie Freestone, University of Queensland: *How the History of Science is Used in Recent Popular Explanations of Darwinism*

Interrogating Histories of Science in Westworld

11/20/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Eli Nelson, Williams College

Microbes and the Order of Nature in the Anthropocene

11/20/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Charles Kollner, California Institute of Technology

Charles Kollner, California Institute of Technology: *Petri-Dish Parsimony: Growth Factors, Nutritional Types, and the Molecular Microbe*

Alison Renna, Yale University: *Intestinal Gardening and Progressive-Era Bacterial Cosmology in the Life of the Reverend Doctor James Empringham*

Nicole Welk-Joerger, North Carolina State University (until June 2021): *"Greening" U.S. Cattle through Microbial "Bovine Alchemy" in the Twentieth Century*

Navigating the Profession with Chronic Illness or Invisible Disabilities

11/20/2021

9:00 AM – 10:00 AM

Joint with SHOT, Roundtable

Organizer Allison Marsh, University of South Carolina

Chair Allison Marsh, University of South Carolina

Practicing and Formalizing: Engineering Creativity in the Twentieth Century

11/20/2021

9:00 AM – 10:00 AM

Joint with SHOT, Organized Session

Organizer Ekaterina Babintseva, Harvey Mudd College

Chair Patrick McCray, University of California, Santa Barbara, Department of History

Ekaterina Babintseva, Harvey Mudd College: *Producing Rule-Based Creativity: Automation and Thinking in Late Socialism and Capitalism*

Honghong Tinn, University of Minnesota: *City of Displacement: Electronics, Creativity, and Urban Space in Taiwan*

Evan Hepler-Smith, Duke University: *Making it explicit: Formalization and creativity in chemistry*

Aaron Mendon-Plasek, Columbia University: *Creativity as efficacy criteria: how machine learning became artificial intelligence in the 1980s and reformed descriptions of the social and political world*

Raw Materials, Supply Chains, and the Politics of Scientific Technologies

11/20/2021

9:00 AM – 10:00 AM

Joint with SHOT, Roundtable

Organizer Christine von Oertzen, Max Planck Institute for the History of Science

Chair Christine von Oertzen, Max Planck Institute for the History of Science

Science and Artisanal Knowledge: Towards a Global History

11/20/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Hyeok Hweon Kang, Washington University in St. Louis

Chair Pamela H. Smith, Columbia University

Yin Cai, University of Chicago: *"Scholars Arrange Threads in the Right Order": Writing about the (State)craft*

Hyeok Hweon Kang, Washington University in St. Louis: *"Artisans Do Not Illuminate the Principles": A Physician's Experiments with Craft Knowledge in Eighteenth-Century Korea*

Rajarshi Sengupta, University of Hyderabad: *Craft Revival at the Time of Technological Growth: Kamaladevi Chattopadhyay's Hands-on Interventions*

Pamela Long, independent historian: *Commentary*

The Senses in the Archive: Attention, Experience, Form

11/20/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer D. Graham Burnett, Princeton University

Chair D. Graham Burnett, Princeton University

Alexandra Hui, Mississippi State University: *Finding Attention in the Archives: listening for control and listening for manipulation in the Irving Teibel Papers*

Anya Yermakova, Harvard University: *Across archival categories: Attention to methods in pre-Revolutionary Russian-speaking Eurasia*

D. Graham Burnett, Princeton University: *The Perky Experiments: Imagination in the Archive*

Shireen Hamza, Harvard: *Look Hard at the Edges*

Vast Canvases: Science, Technology, and the Rendering of Marine Environments

11/20/2021

9:00 AM – 10:00 AM

Joint with SHOT, Organized Session

Organizer Samantha Muka, Stevens Institute of Technology

Chair Samantha Muka, Stevens Institute of Technology

Penelope Hardy, University of Wisconsin-La Crosse: *Drafting the Deep: Knowing the Ocean through Images in the Mid-Nineteenth Century*

Hayley Brazier, University of Oregon: *Out of Sight, Out of Mind: Public Perception and the Visibility of Seafloor Technologies*

Samm Newton, UW-Madison: *Pteropods Realized: Organismal Technology and the Co-production of Environmental Value*

Samantha Muka, Stevens Institute of Technology: *Creating Responsible Pollution?: C-WARP, Conservation, and the Ocean as Landfill*

Working (with) Matter

11/20/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Robin Wolfe Scheffler, Program in STS, Massachusetts Institute of Technology

Chair Robin Wolfe Scheffler, Program in STS, Massachusetts Institute of Technology

Sara Meloni, University of Pennsylvania: *Zero Risk: Chemical Workers' Struggles for Health in Italy (1966–1977)*

Joel Tannenbaum, Community College of Philadelphia: *"The Subjects Found That the Steak Was Blue": Science, Marketing and the Making of a Culinary Myth*

Robin Wolfe Scheffler, Program in STS, Massachusetts Institute of Technology: *Locating Laboratory Lives: The Urban Workscapes of Biotechnology*

Carolyn Cobbold, Cambridge University: *Chemists become food creators and connoisseurs: Food Transformation 1856–1906*

Another Vast Machine I: Data, Models, and Simulations in the Human Sciences

11/20/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Tabea Cornel, New College of Florida

Chair Emily Merchant, University of California, Davis

Rebecca Lemov, Harvard University: *From Mass to Micro Persuasion in an Age of Big Data*

Christopher Phillips, Carnegie Mellon University: *Anatomy of a Biomedical Controversy: Cancer Screening, Statistics, and Simulation Modeling*

Tabea Cornel, New College of Florida: *Fluorescent Sensors in Bayesian Brains: Transgenic Mice as Statistical Technologies in Neurogenomics*

Hallam Stevens, Nanyang Technological University: *Hadooping the Genome: The impact of text search tools in biomedicine*

Capturing Motion: New Approaches to Power / Knowledge in the History of Science and Technology

11/20/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Hiromi Mizuno, University of Minnesota

Chair Hiromi Mizuno, University of Minnesota

Victor Petrov, University of Tennessee: *A Song for Fujitsu: Socialist Bulgarian Accelerationism and the Japanese Model in the Late Cold War*

James Lin, University of Washington: *Feeding “the World’s Costliest Military Machines:” Rice, Fertilizer, and State Power in Authoritarian Taiwan, 1949–1960*

Kate McDonald, University of California, Santa Barbara: *The Housewife Cart Force and Other Transport Innovations: Histories of Human Power in Contemporaneous Frame*

Hiromi Mizuno, University of Minnesota: *Nitrogen in Motion: Fertilizer Flow between the East and West in the Cold War*

Digitizing Materiality of Scientific Collections

11/20/2021

11:00 AM – 12:00 PM

HSS, Roundtable

Organizer Isabelle Held, Science History Institute

Chair Isabelle Held, Science History Institute

Early Modern Natural Philosophy

11/20/2021

11:00 AM – 12:00 PM

HSS, Contributed Paper Session

Chair Catherine Abou-Nemeh, Victoria University of Wellington

Filip Geaman, Johns Hopkins University: *Nature, Authority, and History in 16th-Century Treatises of Astrology and Divination*

Stefano Gattei, University of Trento: *Campanella, Galileo, and the Clash for the New Science at the Court of Urban VIII*

Peeter Mürsepp, Tallinn University of Technology: *Early Teaching of Newton at Tartu University*

Areins Pelayo, Department of Philosophy, University of Illinois-Chicago: *The Metaphysical and Empirical Criteria of Newton's Hypotheses*

Expertise and Exercise

11/20/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Katherine Contess, Brown University

Chair Scott Kushner, University of Rhode Island

Hongwei Thorn Chen, Tulane University: *Performing Expertise, Reforming Customs: Cinema, Industrial Technique, and Embodied Knowledge in Semi-Colonial China*

Katherine Contess, Brown University: *From the Harvard Fatigue Lab to Peloton: Towards a History of the Exercise Treadmill*

Adam Hebert, *Faster, Higher, Stronger?: Olympic Bodies in Motion and the Loss of the "Open" Machine*

FUTURES: Past, Present, and Future of the Scientific Conference

11/20/2021

11:00 AM – 12:00 PM

HSS, Roundtable

Organizer Geert Somsen, Maastricht University / Vrije Universiteit

Chair Geert Somsen, Maastricht University / Vrije Universiteit

Hidden Labor in the Practices of Early Modern Science

11/20/2021

11:00 AM – 12:00 PM

HSS, Organized Session

Organizer Alix Cooper, SUNY–Stony Brook

Chair Michelle DiMeo, Science History Institute

Vera Keller, University of Oregon: *Charlatans, Hidden and Shown in Experimental Practice*

Alix Cooper, SUNY–Stony Brook: *The Work of Family Connections: In-Laws and Other Kin in the Early Modern Sciences*

Elizabeth Yale, University of Iowa: *Hidden from Whom? Visibility and Historical Practice in the Study of Early Modern Knowledge–Craft*

Legacies of Silent Spring, Session #1: Ecology, Pollution, Industry, Environmental Activism

11/20/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Marsha Richmond, Wayne State University

Chair Frederick R. Davis, Purdue University

Gene Cittadino, New York University: *Ecology and the Bomb: A Retrospective Assessment*

Ryan Hearty, Johns Hopkins University: *Ruth Patrick, DuPont, and the Biological Monitoring of Pollution in the US, 1950–1970*

David Hecht, Bowdoin College: *Stressful Environments: Nuclear Power and the Politics of Public Health*

Jole Shackelford, University of Minnesota: *Chronobiology and Environmental Impact in Projects Sanguine and Seafarer*

Narrative as Practice in the Life Sciences

11/20/2021

11:00 AM – 12:00 PM

HSS, Roundtable

Organizer Rachel Mason Dentinger, University of Utah

Chair Rachel Mason Dentinger, University of Utah

Nationalism and the Decolonization of Asian Histories of Science

11/20/2021

11:00 AM – 12:00 PM

HSS, Roundtable

Organizer Elise Burton, University of Toronto

Chair Lan Li, Rice University

Psychology, Research, and Pedagogy

11/20/2021

11:00 AM – 12:00 PM

HSS, Contributed Paper Session

Chair Felix Rietmann, University of Fribourg

Ulrich Koch, George Washington University: *From the Consulting Room to the Classroom? Institutions, Social Technologies, and the Creation of Safe Spaces*

Marga Vicedo, University of Toronto: *Clara Park's intelligent love: Reclaiming the role of parents in studying child development and autism*

Evan Arnet, Indiana University Bloomington: *Hierarchy and Experimentalism in Early Comparative Psychology*

Thinking with Poison: A Cross-Cultural Conversation

11/20/2021

11:00 AM – 12:00 PM

HSS, Organized Session

Organizer Yan Liu, State University of New York, Buffalo

Chair Jeremy Greene, Johns Hopkins University

Alain Touwaide, Institute for the Preservation of Medical Traditions: *Toxicology in Antiquity: From the Forensic to the Epistemological*

Yan Liu, SUNY Buffalo: *The Paradox of Du: Poisons and Medicines in Early China*

Alisha Rankin, Tufts University: *Poison, Witchcraft, and Pharmakeia in Early Modern Europe*

Barbara Gerke, independent scholar: *Ecologies of Patronage and Potency: The Transformation of Poisons in Tibet*

Visioning Past and Future in Science Museums and Educational Technologies

11/20/2021

11:00 AM – 12:00 PM

Joint with SHOT, Organized Session

Organizer Elizabeth Petrick, Rice University

Chair Patrick McCray, University of California, Santa Barbara

Morgan Ames, UC Berkeley: *Throwback Culture: The Role of Nostalgia in American Educational Technology*

Elizabeth Petrick, Rice University: *Replacing Visions: The Notetaker Prototype and the Loss of Education*

Petrina Foti, Loughborough University: *Science Museums and the Intangible: Curatorial Visions of the Future*

Elena Aronova, UCSB: *The Revolutionary Avant-Garde: Scientific Modernity at the Moscow Museum of Biology in the 1920s*

What Now? Broadening Your Career Horizons While a Grad Student

11/20/2021

11:00 AM – 12:00 PM

HSS, Roundtable

Organizer Sara Ray

Sarton Medalist Interview: Bernadette Bensaude Vincent

11/20/2021

12:45 PM – 1:45 PM

HSS, Plenary

Organizer Mary Jo Dye, Oregon State University, Alan Rocke, Case Western Reserve University

Chair Jan Golinski,

Participants:

Ana Simoes, University of Lisbon

Evan Helper-Smith, Duke University

Brigitte Van Tiggelsen, Science History Institute

Carsten Reinhardt, University of Bielefeld

William Newman, Indiana University

Robert Fox, Oxford University

Animal Studies, Biodiversity, and Conservation

11/20/2021

2:30 PM – 3:30 PM

HSS, Contributed Paper Session

Chair Tamara Caulkins, Central Washington University

Jeremy Schneider, Princeton University: *Hunted to extinction: "lost species" in the commercial world of Bernard Palissy (1510–89)*

Jacob Gautreaux, Louisiana State University/University of Louisiana at Lafayette: *John Lynch "Father of the Flyway Biologists": A Professional Naturalist and Dedicated Conservationist*

Katherine McLeod, New York University: *How to Display a Hoatzin: Evolution and Conservation at the Bronx Zoo*

Elizabeth McNeill, University of Michigan: *Maurice Maeterlinck's Popular-Spiritualist Animal Psychology (1914)*

Animating Technoscience: Imagination, Production, and Representation

11/20/2021

2:30 PM – 3:30 PM

Joint with SHOT, Organized Session

Organizer Michael Meindl, Radford University/Virginia Tech

Chair Hanna Rose Shell, University of Colorado Boulder

Colin Williamson, Rutgers University – New Brunswick: *Animating Biology and the Biology of Animation: The Technoscience of Disney's FANTASIA*

Alana Staiti, Smithsonian Institution: *Motion, Emotion, and the Human in the Computer: Motion Models and Computerized Bodily Form, 1971–1981*

Michael Meindl, Radford University: *"Take Chances! Make Mistakes! Get Messy!": The Magic School Bus and the Reanimation of Science Education in the 1990s*

Matthew Wisnioski Virginia Tech

Reb Perry, Independent: *Virtual Film Production: Surfing the Database, Democratizing Technology?*

Another Vast Machine II: Data, Models, and Simulations in the Human Sciences

11/20/2021

2:30 PM – 3:30 PM

Joint with SHOT, Organized Session

Organizer Emily Merchant, University of California, Davis

Chair Tabea Cornel, New College of Florida

Michael Neuss, Vanderbilt University Medical Center: *"Physicians of the Future":
Reconfiguring the Patient's Chart for the Production of Usable Data*

Emily Merchant, University of California, Davis: *Excavating the Origins of Sociogenomics*

Emanuele Ratti, Johannes Kepler University Linz: *Algorithmic Bias and Norms about the Past:
The Thin Line between Predicting and Creating the Future*

Elodie Grossi, Universite Toulouse Jean Jaures: *The new face of race in the epigenetic age:
towards a survey of past trauma, the creation of predictive technologies and their limits*

Bible-Based Science in Paracelsus and his Followers

11/20/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer William Newman, IU Bloomington

Chair James Voelkel, SHI

Didier Kahn, CNRS: *A Paracelsian Medicina Mosaica: the "Monarchia Triadis in Unitate" by
Gerhard Dorn (1577)*

Andrew Sparling, independent scholar: *Paracelsus on Signa and Scientia: How the Signs
That God Stamped upon Natural Things Made the "Knowledge" That the Things Contained
Discoverable*

Dane Daniel, Wright State University, Lake Campus: *Radical Spiritualism Meets Spagyric
Cosmology: Paracelsus on the Scriptural Foundations of Natural, Divine, and Demonic Magic*

William Newman, IUB: *A Chymist among Beasts: Paracelsus and Animal-lore*

Censoring Science in the Early Modern Mediterranean

11/20/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Jonathan Regier, Ca' Foscari University of Venice

Chair Hannah Marcus, Harvard University

Duygu Yildirim, *In the Time of Melancholy: Medical Translation, Religious Conversion, and
Resilience in the Early Modern Ottoman World*

Neil Tarrant, University of York: *Making a Censor: Learned Magic in Robert Bellarmine's Lectiones Iovanienses*

Jonathan Regier, Ca' Foscari University of Venice: *Cardano's Philosophy of Threat and the Roman Inquisition*

Earthly Knowledge: Digging the Deep Past

11/20/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Meira Gold, York University

Chair Megan Raby, University of Texas at Austin

Fredrik Albritton Jonsson, University of Chicago: *Carbonic Climates: Coal Mining and the Making of the Carboniferous 1820–1840*

Lukas Rieppel, Brown: *Temporal Dispossession & Epistemic Imperialism During the Long Gilded Age*

Meira Gold, York University: *Territorial Soils: Between British archaeology and local agriculture in colonial Egypt*

Rebecca Woods, University of Toronto: *Mining for Mammoths: The Political Economy of Frozen Pleistocene Remains in the North American Arctic*

Envirotech at 20: Roots and Branches

11/20/2021

2:30 PM – 3:30 PM

Joint with SHOT, Roundtable

Organizer Blair Stein, Clarkson University

Chair Tom Zeller, University of Maryland

FUTURES: Digital Futures in the History of Science and Technology

11/20/2021

2:30 PM – 3:30 PM

Joint with SHOT, Roundtable

Organizer Abraham Gibson, University of Texas at San Antonio

Chair Abraham Gibson, University of Texas at San Antonio

Legacies of Silent Spring, Session #2: From Scientist to Nation

11/20/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Sabine Clarke, University of York, UK

Chair Frederick R. Davis, Purdue University

Marsha Richmond, Wayne State University: *Theo Colborn, the Great Lakes, and the Discovery of Endocrine Disruption*

Mark Barrow, Virginia Tech: *The Construction of a Sentinel Species: Louis Guillette and Lake Apopka's Alligators*

Sabine Clarke, *Slow, Mediated and Uneven: A New History of Insecticides in British Farming*

Lloyd Ackert, Drexel University: *Applied Ecology at the Academy of Natural Sciences of Philadelphia, 1970–1990*

Maritime Cultures and the Translation of Scientific Knowledge

11/20/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Judy Johns Schloegel, Independent Scholar

Chair Penelope Hardy, University of Wisconsin–LaCrosse

Katharina Steiner, University of Wisconsin–Madison: *The Use of Images in the Debate between Haeckel and Hensen over the Role of Plankton*

Emily Hutcheson, University of Wisconsin–Madison: *Local Labor, Transnational Science: Producing Scientific Objects and Inscriptions in the Dutch East Indies, circa 1900*

Judy Johns Schloegel, Independent Scholar: *Instituting Biology in the Great Lakes: Scientific Survey Work and Inland Seas Maritime Culture, 1893–1903*

Public Health and the Body

11/20/2021

2:30 PM – 3:30 PM

HSS, Contributed Paper Session

Chair Danielle Picard, Vanderbilt University

Ambika Natarajan, UM–DAE CEBS: *The Uses of Quarantine: Diseased Bodies as a Hygiene Crisis in the Work of Sigmund Ritter von Illanor*

Kathryn Holihan, The College of Wooster: *Enrolling Women in Hygiene: “Maternal Anatomy” and the 1918 Exhibition for Infant Welfare*

Courtney Mrazek, University of New Brunswick: *The Nova Scotia Sanatorium: Patient Demographics*

Che Yeun, Harvard University: *Technologies of Personal Care and the Rise of Synthetic Musk in 20th Century America*

Scientists and Engineers on the Move (Around the World): Multidisciplinary Reflections on National and Transnational History

11/20/2021

2:30 PM – 3:30 PM

Joint with SHOT, Organized Session

Organizer Monique Laney, Auburn University

Chair Ross Bassett, North Carolina State University

Monique Laney, Auburn University: *Writing the History of STEM Migration to the United States*

Takashi Nishiyama, State University of New York, Brockport: *International Outflow of Technological Expertise: A Case from Japan, 1868–1952*

Roland Wittje, IIT Madras: *German scientists and engineers in post-independence India*

Irina Antoshchuk, University of Amsterdam: *Foreign-born academics as highly skilled migrants: how migration studies can help sociology of science*

Sovereigns and Savants: State Power and Intellectual Authority in French Scientific-Cultural Networks

11/20/2021

2:30 PM – 3:30 PM

HSS, Organized Session

Organizer Abigail Fields, Yale University

Chair J. B. Shank, University of Minnesota

Travis Wilds, University of Minnesota Twin Cities: *The Empire of Exactitude: Mathematical Physics and the Autonomization of Science under Napoleon*

Katherine Reinhart, University of Wisconsin – Madison: *The Iconography of Science & Power in Early Modern France*

Rossella Baldi, University of Neuchâtel: *Taste or method on display. Debating scientific legitimacy through natural history collections in the second half of the 18th century*

Abigail Fields, Yale University: *'Modern' Science: Situating the Royal Academy of Sciences within the Quarrel of the Ancients and the Moderns*

Agriculture in Colonial and Post-Colonial Contexts

11/20/2021

4:30 PM – 5:30 PM

Joint with SHOT, Organized Session

Organizer Marlis Hinckley, Johns Hopkins University

Chair Nathan Kapoor, Grand Valley State University

Marlis Hinckley, Johns Hopkins University: *Asceticism and Food Crops in 16th-Century Mexico*

Marianna Fenzi, EPFL: *Interconnected Crops, Agronomists and Varieties in the Global South*

Sandipan Baksi, Foundation for Agrarian Studies: *Indian Engagements with Scientific Agriculture under British Colonial Rule: The Case of the United Provinces*

Climate Science/Environment

11/20/2021

4:30 PM – 5:30 PM

HSS, Contributed Paper Session

Chair Joyce Chaplin, Harvard University

Oliver Lucier, Yale University: *Caribbean Commodities and the Construction of a Normative Climate, 1940–1967*

Jiho Moon, Seoul National University: *The “struggle against nature” of agricultural-meteorologists in the 1950s–60s China: Rubber trees and the cold-weather damage*

Emil Flatø, University of Oslo: *Climate Futures and the Problem in the U.S. Post-War Science–Policy Nexus*

Fairness by Calculation: Four Centuries of Algorithmic Aspirations

11/20/2021

4:30 PM – 5:30 PM

Joint with SHOT, Organized Session

Organizer William Deringer, M.I.T.

Chair Theodora Dryer, New York University / AI Now Institute

William Deringer, Massachusetts Institute of Technology: *Just Fines: Mathematical Tables, Church Landlords, and Fair Algorithms, c. 1628*

Rodrigo Ochigame, Massachusetts Institute of Technology: *Algorithmic Fairness and Actuarial Politics*

Alma Steingart, Columbia University: *Voting by Algorithm: The 1930s Fight over Proportional Representation in Cambridge, MA*

Islamicate Sciences and Small Technologies in Modern South Asia

11/20/2021

4:30 PM – 5:30 PM

Joint with SHOT, Organized Session

Organizer Andrew Amstutz, University of Arkansas–Little Rock

Chair Projit Mukharji, University of Pennsylvania

S Dattoo, Reed College: *Advertising Medical Technologies in Urdu Print c. 1930: Prosthesis and Possibility*

Amanda Lanzillo, Princeton University: *Electroplating as alchemy: Labor and technology among Muslim metalsmiths*

Andrew Amstutz, University of Arkansas–Little Rock: *Technology against Revolution: Compiling an Urdu History of Science through Small Technologies*

Charlotte Giles, University of Texas at Austin: *Crafting artisanal body parts: technology and embroidery in the zardozi industry of Lucknow*

Libraries and Mathematics: Rethinking “the mathematician’s laboratory”

11/20/2021

4:30 PM – 5:30 PM

HSS, Organized Session

Organizer Michael Barany, University of Edinburgh

Chair Joan Richards, Brown University

Kevin Lambert, California State University Fullerton: *The Malthus Library: The Library as Cognitive Instrument in the Making of the Malthusian Population Principle*

Jenne OBrien, Princeton University: *Shaping a Model Library in Göttingen: Felix Klein and the Spaces of Professional Mathematics*

Bruce Hunt, University of Texas: *“Having No Books to Speak Of”: The Mathematical Self-Education of Oliver Heaviside.*

Ellen Abrams, Cornell University: *The Scripta Mathematica Library and the “Survival” of Mathematics in America*

Making and Knowing: Working with How-To Texts in the History of Science and Technology

11/20/2021

4:30 PM – 5:30 PM

HSS, Organized Session

Organizer Tillmann Taape, The Warburg Institute

Chair Pamela Smith, Columbia University

Tillmann Taape, The Warburg Institute: *From erfahrung to expérience: vernacular traditions of experiential knowledge in French and German technical literature.*

Monique O'Connell and Paul Jones, Wake Forest University: *From Watching to Working: Incorporating "Making and Knowing" activities into a History of Science course*

Paul Jones Wake Forest University

Clément Godbarge, The Warburg Institute/Villa I Tatti: *Semi-distant Reading: A Data-rich Approach to Early Modern Technical Literature.*

Medieval and Early Modern Reading Practices

11/20/2021

4:30 PM – 5:30 PM

HSS, Organized Session

Organizer Nuno Castel-Branco, Max Planck Institute for the History of Science

Chair Vera Keller, University of Oregon

Nuno Castel-Branco, Johns Hopkins University: *Reading the Philosophical Transactions: The English Manuscript Notes of Nicolaus Steno (1638–1686)*

Yijie Huang, University of Cambridge: *Taking the Pulse in the Marketplace of Print in Seventeenth-Century England*

Raz Chen-Morris, Hebrew University of Jerusalem: *Acts of non-reading and the production of knowledge in early Modern Europe*

Carol Pal, Bennington College: *Seriously? Humor as an Invisible Genre in Medieval Medical Manuscripts*

Nutrition Science in the Cold War

11/20/2021

4:30 PM – 5:30 PM

HSS, Contributed Paper Session

Chair Matt Shindell, Smithsonian National Air and Space Museum

Hannah LeBlanc, California Institute of Technology: *The Global Protein Gap and the Post-Eugenic Politics of Nutrition*

Travis Weisse, Marist College: *The Atomic Balm: Nuclear War, Cancer, and the Macrobiotic Diet in America, 1960–1990*

William Gurstelle, University of Minnesota: *Bea's Diner: Beatrice Finkelstein and the early U.S human space program*

Research Methods in the Social Sciences

11/20/2021

4:30 PM – 5:30 PM

HSS, Contributed Paper Session

Chair Jonny Bunning, University of Chicago

Tom Kayzel, Universiteit van Amsterdam: *Early Economic Planning and the Double Experience of Modernity*

Ohad Reiss Sorokin, Princeton University: *The Production of Knowledge: A Path Not Taken*

Christopher Rudeen, Harvard University: *"Anthropology at Home": The Domestic Methods of Mass-Observation*

Matthew Hoffarth, Consortium for History of Science, Technology & Medicine: *Interactions with the Rorschach: Anthony F.C. Wallace and Mel Spiro's Criticisms of the Culture Concept*

Science & Gender

11/20/2021

4:30 PM – 5:30 PM

HSS, Contributed Paper Session

Chair Evelyn Hammonds, Harvard University

Leah Malamut, University of Minnesota: *Prosperity through "Beeconomy": American Women in Beekeeping, 1870-1900*

Randi Spray, University of Wyoming: *Knowledge without a University: Authority building by women botanists in pre-WWII America*

Ana Barahona, Evolutionary Biology: *Collaborative networks and hybrid objects: women geneticists in Mexico in the 1960s and early 1970s*

Rhianna Elliott, University of Cambridge: *Motherhood, menstrual blood, and the moon: life and death in the early modern womb*

Science in East Asia between Global, Regional, and Local Perspectives: Power, Colonialism and Knowledge Production, 19th – 21st century

11/20/2021

4:30 PM – 5:30 PM

HSS, Organized Session

Organizer Noa Nahmias, York University

Chair Grace Shen, Fordham University

Noa Nahmias, York University: *The universe of science at your doorstep: popular science between national and global in China, 1933-1937*

Rachel Wallner, Northwestern University: *Making Hydrography Modern: Late-Qing Empire and Reforming Knowledge of the Southern Chinese Coast, 1886-1902*

Haesoo Park, Singapore Management University: *Postcolonial Science in Korea: Gendered Stem Cells and Technoscientific Sovereignty*

Midori Kawaue, Princeton University: *Japanese Anthropology and its Colonial Enterprise: A Case Study of the 1903 Human Pavilion*

Science, Colonization, and Decolonization

11/20/2021

4:30 PM – 5:30 PM

HSS, Contributed Paper Session

Chair Vivek Neelakantan

Miguel Chavez, Vanderbilt University: *Professionalizing Science: British Geography, Africa, and the Exploration of the Nile*

Jonathan Victor Baldoza, Princeton: *Science for the Future Republic: Postcolonial Anticipation and "Scientific Planning" in the Philippines, 1935-1941*

Robrecht Declercq, Ghent University: *Infrastructures of Modernity? Processing Metals on the Central African Copperbelt, c.1907-1975*

Duncan Money Leiden University

Jack Klempay, Princeton University: *Archaeology, Atoms, and African Decolonization: Pasts and Futures Collide in a Senegalese Radiocarbon Laboratory*

UFOs and Ufology as Transnational Phenomena

11/20/2021

4:30 PM – 5:30 PM

Joint with SHOT, Organized Session

Organizer Greg Eghigian, Penn State University

Chair Pey-Yi Chu, Pomona College

Andy Bruno, Northern Illinois University: *The Tunguska Event in Soviet UFOlogy*

Kate Dorsch, University of Pennsylvania: *Countercultural Religion in Extraterrestrial Space: UFO Theologies as Cold War Logics*

Noah Morritt, Memorial University of Newfoundland: *"UFO New Supercraft Under Test": Science, Conspiracy Theory, and the Public Response to the 1967 Shag Harbour UFO Incident*

Greg Eghigian, Penn State University: *How UFOs Went Global: The Internationalization of Ufology, 1947-1980*

SUNDAY, 21 NOVEMBER 2021

HSS Business Meeting

11/21/2021

7:30 AM – 8:45 AM

HSS, Caucus / Forum / Interest Group Meeting

Organizer Jan Golinski, University of New Hampshire

A Higher Form of Cannibalism?

11/21/2021

9:00 AM – 10:00 AM

HSS, Roundtable

Organizer John Galbraith Simmons

Collections, Archives, Libraries, and Museums (CALM) Caucus Meeting

11/21/2021

9:00 AM – 10:00 AM

HSS, Caucus / Forum / Interest Group Meeting

Organizer Pedro Raposo

Ephemeral Phenomena: Science and Technology in Experimental and Observational Research

11/21/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Amy Fisher, University of Puget Sound

Chair Gregory Good, Center for History of Physics, American Institute of Physics

Amy Fisher, University of Puget Sound: *The Animal Furnace: Technological Analogs of Natural Systems in Nineteenth-Century Chemistry*

Daniel Liu, Max Planck Institute for the History of Science: *Teaching Microscopy at the Limits of Optical Interpretation: The Zeiss Vacation Courses, 1907–1924*

Kathryn Carpenter, Princeton University: *Storm Snapshots: The Use of Amateur Photography in Tornado Science*

Jacob Hamblin, Oregon State University: *Rivers of the Bomb: Modeling historical doses of radiation after the Cold War in the United States and Russia*

FoHoMS Meeting

11/21/2021

9:00 AM – 10:00 AM

HSS, Caucus / Forum / Interest Group Meeting

Organizer Karen Parshall, University of Virginia

FoHCS Meeting

11/21/2021

9:00 AM – 10:00 AM

HSS, Caucus / Forum / Interest Group Meeting

Organizer Evan Hepler-Smith, Duke University

GECC Business Meeting

11/21/2021

9:00 AM – 10:00 AM

HSS, Caucus / Forum / Interest Group Meeting

Organizer Sarah Pickman, Yale University, Mikey McGovern, Princeton University

Heads in the Clouds: Fantasies and Communities in Early Meteorology

11/21/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Mark Frank, Fulbright University Vietnam

Chair Mark Frank, Fulbright University Vietnam

Josh Levy, Library of Congress, Manuscript Division: *Every Farm a Laboratory: Civilization, Empire, and Early Visions for a United States Weather Bureau*

Fiona Williamson, Singapore Management University: *Local Problems, Global Solutions?: Making it Rain in Hong Kong c. 1890–1930*

Mark Frank, Yale University: *National Climate: Zhu Kezhen and the Politics of the Atmosphere in Modern China*

Naturalness as an Epistemic Virtue: Case Studies from the History of Mathematics

11/21/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Nicolas Michel, Utrecht University

Chair Jemma Lorenat, Pitzer College, Claremont

Julia Tomasson, Columbia University: *"Nature" in Mathematics after Newton: The Epistemic Priority of Mathematics in The Analyst Controversy*

David Waszek, McGill University: *Clever Artifice or Signpost to the Hidden Nature of Things? The Circulation of Leibniz's Analogy of Powers and Differences*

Nicolas Michel, Utrecht University: *Sweet is the lore which Nature brings: Clarity, Simplicity, and Naturalness in Chasles's and Poincaré's Geometrical Mechanics*

Michael Barany, University of Edinburgh: *Commentator: [Naturalness as an Epistemic Virtue: Case Studies from the History of Mathematics]*

Physical Intermediaries between Mind and Brain from the 18th to 20th Centuries

11/21/2021

9:00 AM – 10:00 AM

HSS, Organized Session

Organizer Edward Barnet, Hamilton College

Chair Nima Bassiri, Duke University

Edward Barnet, Stanford University: *David Hartley's Mental Acoustics: The Doctrine of Vibrations and the Beginnings of Associationist Psychology*

Zachary Levine, Columbia University: *Experimenting Between Brains, Nerves and Selves: Alfred Binet, Charles Féré, and the Form of the Case Study in the Brain and Mind Sciences*

Katja Guenther, Princeton University: *Mirrors, Twins, and the Developing Child: Capturing the Self through Glass and Film*