

# History of Science Society 2020

---

The sessions listed below represent the program that would have occurred if the HSS were able to meet in New Orleans. However, the global pandemic has made an in-person meeting impossible. We are grateful to our program chairs, Christine von Oertzen and Soraya de Chadarevian, for constructing such a comprehensive, engaging, and provocative program. Currently, the HSS is investigating how to transform this program into a virtual meeting. Stay tuned for updates!

Group 1 • Session 1

---

Organized Session

Earth and Environmental Sciences

## **A Science in Flux: Critical Histories of Geomorphology**

### ORGANIZER

Etienne Benson

University of Pennsylvania

### CHAIR

Etienne Benson

University of Pennsylvania

### PRESENTER 1

#### **Solid Danger: Sediment Excess in Enlightenment River Science and its Afterlives, 18th-20th Centuries**

Giacomo Parrinello

Sciences Po

### PRESENTER 2

#### **Dams, Ditches, and Disciplinary Entrenchment: Legacies of Early 20th Century North American Land and River Engineering in Contemporary Geomorphology**

Leonora King

Kwantlen Polytechnic University

PRESENTER 3

## **Water Facts for the Nation's Future: Data, Development, and the Quantitative Turn in Fluvial Geomorphology, 1945-1975**

Etienne Benson

University of Pennsylvania

PRESENTER 4

## **Decolonizing Sediments**

Debjani Bhattacharyya

Drexel University

## **Bodies, Anatomy, and Medico-Legal Expertise**

### ORGANIZER

Claire Cage

University of South Alabama

### CHAIR

Alisha Rankin

Tufts University

### PRESENTER 1

#### **Jean-Barthélemy Dazille and the Social Uses of Anatomy in the Eighteenth-Century French Empire**

Meghan Roberts

Bowdoin College

### PRESENTER 2

#### **Burning Bodies and Medico-Legal Expertise in Nineteenth-Century Britain**

Catherine Evans

University of Toronto

### PRESENTER 3

#### **Forensic Medicine on Trial in Nineteenth-Century France**

Claire Cage

University of South Alabama

### COMMENTATOR

Christopher Hamlin

University of Notre Dame

## **Chemistry at Work**

### PRESENTER 1

#### **Locating Laboratory Lives: The Urban Workscapes of Biotechnology**

Robin Wolfe Scheffler

Massachusetts Institute of Technology

### PRESENTER 2

#### **Zero Risk: Chemical Workers' Struggles for Health in Italy (1966-1977)**

Sara Meloni

University of Pennsylvania

### PRESENTER 3

#### **The Legitimization of Chemical Textile Dyes as Food Additives in Europe and the US in the Late 19th Century**

Carolyn Cobbold

University of Cambridge

### PRESENTER 4

#### **The Subjects Found That the Steak Was Blue: Science, Marketing and the Making of a Culinary Myth**

Joel Harold Tannenbaum

Community College of Philadelphia

## **Cold War Science**

### PRESENTER 1

#### **Ad Astra: A Study of the Impact of Restructuring on the Final Years of the Space Race**

Jerryn F. Puckett  
Independent Scholar

### PRESENTER 2

#### **Atomic Spy Klaus Fuchs: The Responsibility of Scientists**

Nancy Greenspan  
Independent Scholar

### PRESENTER 3

#### **Edward Shils and Cold War Communication Research: The MIT Indian Intellectuals Project, 1953-1961**

Jefferson Pooley  
Muhlenberg College

### PRESENTER 4

#### **Thought Experiments: Large-Scale Environmental Engineering during the Cold War**

Matthias Dörries  
University of Strasbourg

## **Fairness by Calculation: Four Centuries of Algorithmic Aspirations**

### ORGANIZER

William Deringer

Massachusetts Institute of Technology

### CHAIR

Theodora Dryer

New York University / AI Now Institute

### PRESENTER 1

## **Just Fines: Mathematical Tables, Church Landlords, and Fair Algorithms, c. 1628**

William Deringer

Massachusetts Institute of Technology

### PRESENTER 2

## **Voting by Algorithm: The 1930s Fight over Proportional Representation in Cambridge, MA**

Alma Steingart

Columbia University

### PRESENTER 3

## **Algorithmic Fairness and Actuarial Politics**

Rodrigo Ochigame

Massachusetts Institute of Technology

### COMMENTATOR

Theodora Dryer

New York University / AI Now Institute

## **Genres of Scientific Knowledge**

### ORGANIZER

Daniela S. Barberis

North Central College

### CHAIR

Emily Hutcheson

University of Wisconsin Madison

### PRESENTER 1

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

Julia Reed

Max Planck Institute for the History of Science, Berlin

### PRESENTER 2

#### **The Localization and Embodiment of the Environment in Early South Carolina Medicine**

Alyssa Peterson

University of Texas Austin

### PRESENTER 3

#### **It Is Only What Comes from Us That Is Of Value: Creating Sociology Through Book Reviewing**

Daniela S. Barberis

North Central College

### PRESENTER 4

#### **Fictional Writing and Listening - The "Verein für Museen" of Biologist Günter Tembrock**

Sophia Graefe

Philipps-University Marburg

## **Imagining the Darwinian Revolution from Darwin to Dawkins**

### **ORGANIZERS**

**Ian Hesketh**

University of Queensland Australia

**Jamie Freestone**

University of Queensland Australia

### **CHAIR**

**Emily Kern**

University of New South Wales

### **PRESENTER 1**

## **Early Historians of the Darwinian Revolution: Herbert Spencer and Charles Darwin**

**Bernard Lightman**

York University

### **PRESENTER 2**

## **The Making of John Tyndall's Darwinian Revolution**

**Ian Hesketh**

University of Queensland Australia

### **PRESENTER 3**

## **Rewriting the Past, Rewriting the Theory: The Extended Evolutionary Synthesis and its Discontents**

**Vassiliki Betty Smocovitis**

University of Florida

### **PRESENTER 4**

## **How the History of Science is Used in Recent Popular Explanations of Darwinism**

**Jamie Freestone**

University of Queensland Australia



## **Medicating the Empire**

### PRESENTER 1

#### **Not of Parochial Interest Only: Imperial Connections and the Production of Knowledge about Tuberculosis in East Africa**

Kirsten Moore-Sheeley

UCLA and Cedars-Sinai Medical Center

### PRESENTER 2

#### **This Formidable Foe Now Has a Conqueror: Patent Medicine Advertising in British Guiana, 1880-1920**

Jacques Guyot

Icahn School of Medicine at Mount Sinai

### PRESENTER 3

#### **With Maps Illustrative of the Disease: Medical Cartography in Late Nineteenth-Century Colonial India**

Lauren Bouchard Killingsworth

University of Cambridge

### PRESENTER 4

#### **The Lungs of a Ship: Labor, Medicine and the Maritime Environment, 1740-1800**

Paul E. Sampson

University of Scranton

## **Persian Astronomy in the Seventeenth and Eighteenth Centuries**

### ORGANIZER

**Peter Barker**

University of Oklahoma

### CHAIR

**Robert Westman**

University of California, San Diego, emeritus

### PRESENTER 1

#### **Astronomy in Seventeenth Century Persia: Bahā' al-Dīn al-ʿĀmilī's Dissection of the Orbs and its Commentary Tradition**

**Younes Mahdavi**

University of Oklahoma

### PRESENTER 2

#### **Persian Astronomy in Istanbul, 1730-1800**

**B. Harun Küçük**

University of Pennsylvania

### PRESENTER 3

#### **Arabic and Persian Astronomy in Seventeenth and Eighteenth Century Europe**

**Peter Barker**

University of Oklahoma

### COMMENTATOR

**Panel Discussion**

## **Science Popularization as Cultural Diplomacy: UNESCO (1946-1958)**

### ORGANIZERS

**Jaume Sastre-Juan**

Center for the History of Science, Universitat Autònoma de Barcelona

**Andrée Bergeron**

Universcience - Centre Alexandre Koyré (EHESS-CNRS-MNHN)

### CHAIR

**Elena Aronova**

University of California at Santa Barbara

### PRESENTER 1

## **Science Popularization from the League of Nations to UNESCO: Continuities and Discontinuities in International Policies (1938-1948)**

**Andrée Bergeron**

Universcience - Centre Alexandre Koyré (EHESS-CNRS-MNHN)

### PRESENTER 2

## **The Battle over the “Social Implications of Science”: UNESCO, Science Service and the Shaping of Cold War Science Popularization (1947-1952)**

**Jaume Sastre-Juan**

Center for the History of Science, Universitat Autònoma de Barcelona

### PRESENTER 3

## **Man Measures the Universe: UNESCO Scientific Itinerant Exhibitions in the Early 1950s**

**Agustí Nieto-Galan**

Universitat Autònoma de Barcelona

## **Hans Nachtseim, the UNESCO Declarations on Race and the Reintegration of West German Science after 1945**

Matthis Krischel

Heinrich Heine University Düsseldorf

## **Scientific Method and the Sciences of Mind in the Nineteenth Century**

### ORGANIZER

David Ivan Delano

University of California Berkeley

### CHAIR

Henry Cowles

University of Michigan

### PRESENTER 1

## **Hierarchy and Experimentalism in Early Comparative Psychology**

Evan Arnet

Indiana University Bloomington

### PRESENTER 2

## **Logic and the Laws of Willing**

Gloria Yu

University of California Berkeley

### PRESENTER 3

## **Framing Intelligence: Darwinian Psychology and the Ends of Inquiry**

David Ivan Delano

University of California Berkeley

### PRESENTER 4

## **Between Geist and Realis: The Creation of Compulsory Psychological Education in Early Nineteenth-Century Germany**

Richard Spiegel

Princeton University

## **Ways of Knowing the Universe**

### ORGANIZER

Jaco de Swart  
University of Amsterdam

### CHAIR

David DeVorkin  
Smithsonian National Air and Space Museum

### PRESENTER 1

#### **Military Models of Life on Mars: Air Force Astrobiology in the Early Cold War**

Jordan Bimm  
Princeton University

### PRESENTER 2

#### **Blue Vegetation on the Red Planet: Soviet Astrobotany and Early Earth Analogues**

Luis Campos  
University of New Mexico

### PRESENTER 3

#### **The Event Horizon as a Vanishing Point: Visual Representations in Black Hole Research and Communication, 1973-2019**

Emilie Skulberg  
University of Cambridge

### PRESENTER 4

#### **How the Universe Went Missing: Dark Matter and the Rise of Physical Cosmology**

Jaco de Swart  
University of Amsterdam

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

### ORGANIZER

Tabea Cornel  
New College of Florida

### CHAIR

Emily Klancher Merchant  
UC Davis

### PRESENTER 1

## **From Mass to Micro Persuasion in an Age of Big Data**

Rebecca Lemov  
Harvard University

### PRESENTER 2

## **Hadooping the Genome: The Impact of Text Search Tools in Biomedicine**

Hallam Stevens  
Nanyang Technological University

### PRESENTER 3

## **Fluorescent Sensors in Bayesian Brains: Transgenic Mice as Statistical Technologies in Neurogenomics**

Tabea Cornel  
New College of Florida

### PRESENTER 4

## **Anatomy of a Biomedical Controversy: Cancer Screening, Statistics, and Simulation Modeling**

Christopher J. Phillips  
Carnegie Mellon University

## **Bible-Based Science in Paracelsus and his Followers**

### ORGANIZER

William R. Newman  
Indiana University

### CHAIR

James Voelkel  
Science History Institute

### PRESENTER 1

## **Radical Spiritualism Meets Spagyric Cosmology: Paracelsus on the Scriptural Foundations of Natural, Divine, and Demonic Magic**

Dane T. Daniel  
Wright State University - Lake Campus

### PRESENTER 2

## **The Two Lights: The Interplay of Natural Philosophy and Theology in Paracelsus**

Urs Leo Gantenbein  
Zurich Paracelsus Project, University of Zurich

### PRESENTER 3

## **A Medicina Mosaica: the Monarchia Triadis in Unitate by Gerhard Dorn (1577)**

Didier Kahn  
Centre National de la Recherche Scientifique

### PRESENTER 4

## **A Chymist among Beasts: Paracelsus and Animal-lore**

William R. Newman  
Indiana University Bloomington



## **Bodies of Evidence: 20th Century Latin American Biomedicine and Knowledge Production**

### ORGANIZER

Julia E. Rodriguez  
University of New Hampshire

### CHAIR

Julia E. Rodriguez  
University of New Hampshire

### PRESENTER 1

#### **Inválidos: Hospitals and Asylums in the Rise of Medical Professionalism in Central America, 1890-1944**

Heather Vrana  
University of Florida

### PRESENTER 2

#### **The Body Decentered: Envisioning Medical Modernity and Charity in the Photographic Records of Lima, Peru's Public Beneficence Society, 1910-1920**

Adam Warren  
University of Washington

### PRESENTER 3

#### **Bodies, Race, and Native Diets across Mexico and the United States, 1930-1950**

Karin Roseblatt  
University of Maryland

### PRESENTER 4

#### **The Skull Wall: Afterlives of Andean Science in the Smithsonian's Hall of Physical Anthropology, 1900-1965**

Christopher Heaney  
Pennsylvania State University

## **Chance Encounters**

### **PRESENTER 1**

#### **A Promising Land: Geographical Knowledge and Qing China's Governance in Xinjiang, 1759-1881**

Xue Zhang

Princeton University

### **PRESENTER 2**

#### **Uncovering Historic 'Whisper' Networks: Women's Friendships in Mid Twentieth Century New Zealand Science**

Kate Hannah

University of Auckland

### **PRESENTER 3**

#### **Trading between Science and Its “Others”: What “Chinese Medicine” Could Do for a Global History of Science**

Sean Hsiang-lin Lei

Academia Sinica, Taiwan and Institute of Science, Technology and Society, Yangming University

### **PRESENTER 4**

#### **A Glowing Garish Ghost Haunts: The Generative Role of Kitsch as Public Engagement**

Michael Édouard Laurentius

York University

## **Colonial and Postcolonial Science**

### **PRESENTER 1**

#### **No Man is an Island: Innovations and Injustices at the Powder Mills of Isle de France (Pamplemousses, Mauritius)**

Yadhav Deerpaal

National Research University - Higher School of Economics, Saint Petersburg - Russia

### **PRESENTER 2**

#### **Professionalizing Science: British Geography, Africa, and the Exploration of the Nile**

Miguel Angel Chavez

Vanderbilt University

### **PRESENTER 3**

#### **Building a Science of the Post-Colonial Body in Egypt**

Jennifer L. Derr

University of California, Santa Cruz

### **PRESENTER 4**

#### **Tracking Decolonisation: The Case of the Journal of Genetics Going East**

Gordon McQuat

University of King's College/Dalhousie University

Arden Rogalsky

University of King's College

## **Graphic Discourse and Narrative in the History of Science I**

### ORGANIZERS

**Mark L. Hineline**

Independent Scholar

**Matthew Shindell**

Smithsonian Institution

### CHAIR

**Joan Steigerwald**

York University

### PRESENTER 1

**Matthew Shindell**

Smithsonian Institution

### PRESENTER 2

**Sally Cochrane**

Princeton University

### PRESENTER 3

**Pierre Laszlo**

University of Liège (retired)

### PRESENTER 4

**Hanna Rose Shell**

University of Colorado Boulder

## Is Deep History White?

### ORGANIZER

**Pratik Chakrabarti**

University of Manchester

### CHAIR

**Pratik Chakrabarti**

University of Manchester

### PRESENTER 1

**Myrna Perez Sheldon**

Ohio university

### PRESENTER 2

**Patricia Martins Marcos**

University of California San Diego

### PRESENTER 3

**Sarah M. Pickman**

Yale University

### PRESENTER 4

**Sarah A. Qidwai**

University of Toronto

### PRESENTER 5

**Neil Safier**

Brown University

### PRESENTER 6

**Pratik Chakrabarti**

University of Manchester

### PRESENTER 7

**Emily Kern**

University of New South Wales

## **Narratives of Seeds I: Interrogating Disciplinary Boundaries between Histories of Science and Technology**

### ORGANIZERS

**Prakash Kumar**

Pennsylvania State University

**Helen Ann Curry**

University of Cambridge

### CHAIR

**Francesca Bray**

University of Edinburgh

### PRESENTER 1

**Helen Ann Curry**

University of Cambridge

### PRESENTER 2

**Prakash Kumar**

Pennsylvania State University

### PRESENTER 3

**Aleksandar Shopov**

Max Planck Institute for the History of Science, Berlin

### PRESENTER 4

**Divya Sharma**

University of Sussex

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

### ORGANIZER

Lida Zeitlin Wu

University of California Berkeley

### CHAIR

Lida Zeitlin Wu

University of California Berkeley

### PRESENTER 1

## **The Neon Surround: History, Theory, and Technique**

Carolyn L. Kane

Ryerson University

### PRESENTER 2

## **“Choose Your Color”: Mood Conditioning in the Postwar Domestic Interior**

Lida Zeitlin Wu

University of California Berkeley

### PRESENTER 3

## **Producing Sonic Space: Telephony and the Emergence of Stereophonic Sound**

Harry Burson

University of California Berkeley

### COMMENTATOR

Sandy Isenstadt

University of Delaware

## **The First: Priority, Failure and Originality in the Making of the History of Science**

### ORGANIZER

Ahmed Ragab

The Center for Black, Brown, and Queer Studies

### CHAIR

Ahmed Ragab

The Center for Black, Brown, and Queer Studies

### PRESENTER 1

## **Transing Our “Litany of Frontier Vignettes”: Native Science and the Illusion of Red Progress(ives)**

Eli Nelson

Williams College

### PRESENTER 2

## **Notes on Awareness: Mabel Lujan and the Firsts of Failure**

Barbara Pohl

Yale University

### PRESENTER 3

## **Origin Myths: Counterfeit, Computers, and Controlling Currency**

Gili Vidan

Harvard University

### COMMENTATOR

Ahmed Ragab

The Center for Black, Brown, and Queer Studies



## **Underground Labor: Earth Workers, Evidence, and Erasure**

### ORGANIZER

Patrick Anthony  
Vanderbilt University

### CHAIR

Lukas Rieppel  
Brown University

### PRESENTER 1

#### **The Field Man: Skill and Identity in Underground Scientific Research at Dinosaur National Monument and Agate Fossil Beds**

Jeremy Vetter  
University of Arizona

### PRESENTER 2

#### **The Unknown Discoverers: Scientific Practice and Knowledge Production in Postcolonial Indonesia**

Paige Madison  
Arizona State University

### PRESENTER 3

#### **The Production of Sustainability: Labor Relations and “Rival Ecologies” in Central European Mines, ca. 1800**

Patrick Anthony  
Vanderbilt University

### COMMENTATOR

Lydia Barnett  
Northwestern University

## **When History of Science and Technology is Difficult History**

### ORGANIZER

**Aimee Slaughter**

Los Alamos Historical Society

### CHAIR

**Aimee Slaughter**

Los Alamos Historical Society

### PRESENTER 1

**Lara Freidenfelds**

### PRESENTER 2

**Katrina N. Jirik**

### PRESENTER 3

**Kara W. Swanson**

Northeastern University

### PRESENTER 4

**Stephanie E. Vasko**

Michigan State University

### PRESENTER 5

**Alex Wellerstein**

Stevens Institute of Technology

### PRESENTER 6

**Johannes-Geert Hagmann**

Deutsches Museum

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

### ORGANIZER

Emily Klancher Merchant  
UC Davis

### CHAIR

Tabea Cornel  
New College of Florida

### PRESENTER 1

## **Physicians of the Future: Reconfiguring the Patient's Chart for the Production of Usable Data**

Michael J. Neuss  
Vanderbilt University Medical Center

### PRESENTER 2

## **Excavating the Origins of Sociogenomics**

Emily Klancher Merchant  
UC Davis

### PRESENTER 3

## **The New Face of Race in the Epigenetic Age: Towards a Survey of past Trauma, the Creation of Predictive Technologies and Their Limits**

Élodie Grossi  
Université Toulouse Jean Jaurès

### PRESENTER 4

## **Algorithmic Bias and Norms about the Past: The Thin Line between Predicting and Creating the Future**

Emanuele Ratti  
University of Notre Dame

## **Censoring Science in the Early Modern Mediterranean**

### ORGANIZERS

**Jonathan Regier**

Ghent University

**Hannah Marcus**

Harvard University

### CHAIR

**Hannah Marcus**

Harvard University

### PRESENTER 1

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

**Duygu Yildirim**

Stanford University

### PRESENTER 2

## **Making a Censor: Learned Magic in Robert Bellarmine's Lectiones Iovanienses**

**Neil Tarrant**

University of York

### PRESENTER 3

## **Girolamo Cardano's Philosophy of Threat and the Roman Inquisition**

**Jonathan Regier**

Ghent University

### COMMENTATOR

**Hannah Marcus**

Harvard University

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

### ORGANIZER

Lan A. Li  
Rice University

### CHAIR

Elizabeth R. Petrick  
Rice University

### PRESENTER 1

## **Body Boxes: Sexual Inversion and the Embodiment of Sexual Selection**

Rodolfo John Alaniz  
Institute for Historical Studies

### PRESENTER 2

## **Functional Boxes: UNIFACE, the Personal Computer, and Accessibility in 1990s Germany**

Jan Muggenburg  
Institute of Culture and Aesthetics of Digital Media (ICAM) Leuphana University

### PRESENTER 3

## **Battery Boxes: Cyborg Connections and Cesarean Sections in Colombo (1962-1985)**

Lan A. Li  
Rice University

### PRESENTER 4

## **Uncomfortable Boxes: A History of Thermal Discomfort in 20th Century India**

Bharat Venkat  
UCLA Institute for Society and Genetics

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

### ORGANIZER

Samantha M. Thompson  
National Air and Space Museum

### CHAIR

Elizabeth Kessler

### PRESENTER 1

#### **“So True to Nature”: Illusion and Immersion in the Early Planetarium**

Katie Boyce-Jacino  
Arizona State University

### PRESENTER 2

#### **Transcribing the Lunar Environment: Art, Draughtsmanship, and the USGS Moon Maps of the 1960s**

Lois Rosson

### PRESENTER 3

#### **Capturing the Northern Lights: The Use of Television Cameras to Measure and Study Aurora**

Samantha M. Thompson  
National Air and Space Museum

### PRESENTER 4

#### **Seeing the World with Super-sight: The Science Photography of Berenice Abbott**

Talia Shabtay Filip

## **Forgotten Genealogies: Medical Genetics and the Emergence of Human Genomics**

### ORGANIZERS

**Miguel Garcia-Sancho**

University of Edinburgh

**Susan Lindee**

University of Pennsylvania

### CHAIR

**Soraya de Chadarevian**

University of California Los Angeles

### PRESENTER 1

## **Sequencing, Bibliometrics and History: A “From Below” Perspective on the Emergence of Human Genomics**

**Miguel Garcia-Sancho**

University of Edinburgh

### PRESENTER 2

## **Cystic Fibrosis and Genetic Prognostication: From the Trope of a Cure to the Uncertainties of Precision Medicine**

**Rebecca Mueller**

University of Pennsylvania

### PRESENTER 3

## **Conflicting Priorities: Genetic Counseling, Disability Advocacy, and Genomic Research**

**Andrew J. Hogan**

Creighton University

### COMMENTATOR

**Susan Lindee**

University of Pennsylvania

## **Global Water Infrastructures**

### **PRESENTER 1**

#### **From God's Waters to Unworthy Matter: Profit, the Textile Industry and the Secularization of the Arno River in 13th-Century Florence**

Luna Sarti

University of Pennsylvania

### **PRESENTER 2**

#### **How Infrastructures Age: Public Power, the TVA, and Environmental Justice in Memphis, TN since 1933.**

Hannah C. Conway

Harvard University

### **PRESENTER 3**

#### **Tsuguo Nozaki's Fieldwork and the Collaborative Nature of Dam-Building in the Third World**

Carlie Cervantes de Blois

University of Minnesota Twin Cities

### **PRESENTER 4**

#### **Mr. Crane, the Faithful Husband: Ugandans Rethinking Wetland Conservation, 1980 to Present**

John Doyle-Raso

Michigan State University



## **Graphic Discourse and Narrative for History of Science II**

### ORGANIZERS

**Matthew Shindell**

Smithsonian Institution

**Mark L. Hinline**

Independent Scholar

### CHAIR

**Joan Steigerwald**

York University

### PRESENTER 1

**David DeVorkin**

Smithsonian Institution

### PRESENTER 2

**Andrew Kirk**

University of Nevada, Las Vegas

### PRESENTER 3

**Mary Richie McGuire**

Virginia Polytechnic Institute and State University

### PRESENTER 4

**Penelope K. Hardy**

University of Wisconsin - La Crosse

### PRESENTER 5

**Mark L. Hinline**

Independent Scholar

## **Greek Science and Its Perception**

PRESENTER 1

### **A Hamiltonian Interpretation of the Antikythera Mechanism**

Alessandro Amabile

Università degli Studi di Napoli Federico II

PRESENTER 2

### **Aristotle's Wheel: A Peripatetic Paradox of Motion**

Arthur Harris

University of Cambridge

PRESENTER 3

### **Conceptions of Science in the Later Islamic Intellectual History (1250-1550)**

Kenan Tekin

Harvard University/Yalova University

PRESENTER 4

### **Meanings of the Right Triangle in Ancient Geometry**

John Z. Wee

University of Chicago

## **Narratives of Seeds II: Interrogating Disciplinary Boundaries between Histories of Science and Technology**

### ORGANIZERS

**Helen Ann Curry**

University of Cambridge

**Prakash Kumar**

Pennsylvania State University

### CHAIR

**Barbara Hahn**

Texas Tech University

### PRESENTER 1

**Yuan Yi**

Columbia University

### PRESENTER 2

**Courtney Fullilove**

Wesleyan

### PRESENTER 3

**Gabriela Soto Laveaga**

Harvard University

### PRESENTER 4

**Tiago Saraiva**

Drexel University

### PRESENTER 5

**Sanjukta Ghosh**

School of Oriental and African Studies

## **Settler Colonialism and Postcolonialism in the History of Science and Technology**

### ORGANIZERS

**Tess Lanza**

University of Toronto

**Marco Ramos**

Yale University

### CHAIR

**Suman Seth**

Cornell University

### PRESENTER 1

**Tess Lanza**

University of Toronto

### PRESENTER 2

**Ashanti Shih**

University of Southern California

### PRESENTER 3

**Rosanna Dent**

New Jersey Institute of Technology

### PRESENTER 4

**Marco Ramos**

Yale University

### PRESENTER 5

**Sebastián Gil-Riaño**

University of Pennsylvania

## **The Science of Violence in 20th-Century North America: Experts and Their Public**

### ORGANIZER

Stephanie Pache  
Université du Québec à Montréal

### CHAIR

Elizabeth Lunbeck  
Harvard University

### PRESENTER 1

#### **The Killer Instinct: An Idea and Its Reception in 1960s America**

Nadine Weidman  
Harvard University

### PRESENTER 2

#### **Wars Begin in the Minds of Men: UNESCO and the Scientific Study of Violence, War, and Peace**

Deborah Weinstein  
Brown University

### PRESENTER 3

#### **Politics of Sexual Violence: The Psychology of Consent in Contemporary North America**

Stéphanie Pache  
Université du Québec à Montréal

### COMMENTATOR

Jill Morawski  
Wesleyan University

## ***OSIRIS* | Food Matters: Critical Histories of Food and the Sciences**

### ORGANIZERS

**Suman Seth**

Cornell University

**Patrick McCray**

UC Santa Barbara

### CHAIR

**Suman Seth**

Cornell University

### PRESENTER 1

**Emma Spary**

Cambridge University

### PRESENTER 2

**Anya Zilberstein**

Concordia

### PRESENTER 3

**Suman Seth**

Cornell University

### PRESENTER 4

**Patrick McCray**

UC Santa Barbara

## **Colonial Science in Louisiana and Beyond: Patronage, Commodities and Expertise in the 18th Century French Atlantic World**

### ORGANIZER

Jordan Kellman

University of Louisiana at Lafayette

### CHAIR

Neil Safier

John Carter Brown Library/Brown University

### PRESENTER 1

## **These Are the Sorts of People That Promise Everything but Have No Difficulty Forgetting: Transplanting Specimens in Eighteenth-Century Louisiana**

Chris Parsons

Northeastern University

### PRESENTER 2

## **Coffee, Science, and Colonial Prosperity in the French Caribbean, 1710-1890**

Stuart McCook

University of Guelph

### PRESENTER 3

## **J.-B. Patris and Enlightenment Medicine in the Amazon**

Francois Regourd

University of Paris X - Nanterre/ESNA-UMR Mondes Américains

### PRESENTER 4

## **Jesuit and Franciscan Scientific Exploration in the Early Louisiana Territory**

Jordan Kellman

University of Louisiana at Lafayette

## **Concepts in 20th-Century Biology**

### PRESENTER 1

#### **What's New in the New Systematics? Subspecies Concepts and the Modern Synthesis**

Beckett Sterner

Arizona State University

Elliott D. Millinor

Arizona State University

### PRESENTER 2

#### **The Organicist Roots of the Levels Concept, 1910-1937**

Daniel S. Brooks

University of Cincinnati

### PRESENTER 3

#### **Henri Bergson's Creative Evolution and 20th-Century British Biology**

Emily Herring

University of Ghent

### PRESENTER 4

#### **Biology Is Not This Way: Opening New Life Science Knowledge via the Building of Closed Environments for the Space Age**

David PD Munns

City University of New York



## **Epidemics and Disasters**

### PRESENTER 1

#### **Crescent City Crisis: Bubonic Plague in New Orleans, 1912-1921**

Kevin George McQueeney

Georgetown University

### PRESENTER 2

#### **Earthquake Narratives: Uses of Archival Documents in Historical Seismology**

Kathryn Renton

Occidental College

### PRESENTER 3

#### **From Outbreak to Pandemic: Making the Justinianic Plague a Global Catastrophe**

Merle Eisenberg

National Socio-Environmental Synthesis Center (SESYNC), University of Maryland

### PRESENTER 4

#### **How Miscommunication Fostered Mistrust during the 1979 Accident at Three Mile Island**

Hannah Elaine Pell

Independent Scholar

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

### ORGANIZER

Teri Chettiar

University of Illinois Urbana-Champaign

### CHAIR

Isabel Gabel

University of Pennsylvania

### PRESENTER 1

#### **When Expertise Precedes Science: Counseling for Donor Insemination in Belgian Fertility Clinics in the 1970s and 1980s**

Tinne Claes

Katholieke Universiteit Leuven

### PRESENTER 2

#### **Risk, Responsibility, and Transformations in the Parent-Child Relationship in Reproductive Counseling in West Germany**

Birgit Nemec

Heidelberg University

### PRESENTER 3

#### **Intimacy Expertise and the Making of Queer Relationships During Britain's Sexual Revolution**

Teri Chettiar

University of Illinois Urbana-Champaign

### PRESENTER 4

#### **You Know What I Mean: Sexual Health Organizations as Expert Advice Columnists**

Saniya Lee Ghanoui

University of Illinois at Urbana-Champaign

## **Gender and Science**

### **PRESENTER 1**

#### **Gender and the History of Medical Anthropology**

Catherine Mas

Florida International University

### **PRESENTER 2**

#### **Hidden Problematic Figures: Recovery without Rehabilitation of An Uncredited Eugenicist**

Brent Ruswick

West Chester University of Pennsylvania

### **PRESENTER 3**

#### **Motherhood, Menstrual Blood, and the Moon: Life and Death in the Early Modern Womb**

Rhianna Elliott

University of Cambridge

### **PRESENTER 4**

#### **A Bundle of Sadness: The Medicalization of Postpartum Depression in the United States, 1970-1996**

Rachel Linfield

University of Cambridge

## **In Memoriam of Aaron Stephen Moore: Infrastructure in East Asia**

### ORGANIZERS

Juyoung Lee

Johns Hopkins University

Hiromi Mizuno

University of Minnesota

### CHAIR

John DiMoia

Seoul National University

### PRESENTER 1

## **Building Roads in Colonial Manchuria (1905-45)**

Yuting Dong

Harvard University

### PRESENTER 2

## **Engineering the Korean War “Crossing of the Yalu”**

Joseph Seeley

University of Virginia

### PRESENTER 3

## **Corporate Consultants and Chemical Fertilizer Plants in Postwar East Asia**

Juyoung Lee

Johns Hopkins University

### PRESENTER 4

## **Technological Intervention in Rural Life: The Soyang Multi-purpose Dam Construction in Postcolonial Korea**

Seohyun Park

Virginia Tech

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

### ORGANIZER

Katherine Epstein  
Rutgers University-Camden

### CHAIR

Margaret Graham  
McGill University

### PRESENTER 1

## **Radio, U.S. Patent Law, and World War I**

Kathryn Steen  
Drexel University

### PRESENTER 2

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

Michael Falcone  
Dartmouth College

### PRESENTER 3

## **Yesterday's China: US Patent Law and Anglo-American Technology Transfer**

Katherine Epstein  
Rutgers University-Camden

### COMMENTATOR

Margaret Graham  
McGill University

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

### ORGANIZER

Connemara Doran  
Harvard University

### CHAIR

Theresa Levitt  
University of Mississippi

### PRESENTER 1

## **Precision Interferometry from Fizeau and Michelson to the Cosmic First Light**

Connemara Doran  
Harvard University

### PRESENTER 2

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

Tiffany Nichols  
Harvard University

### PRESENTER 3

## **Lasers in Space: A Preliminary Focus on the History of LISA, the Proposed Space-Based Gravitational Wave Detector**

Daniel Kennefick  
University of Arkansas

### COMMENTATOR

David Kaiser  
Massachusetts Institute of Technology

## **Science, Superstition, and the Rationalization of Magic in Eighteenth Century Europe and North America**

### ORGANIZERS

**Michael Lynn**

Purdue University Northwest

**Jean-Olivier Richard**

University of Toronto

### CHAIR

**Michael Lynn**

Purdue University Northwest

### PRESENTER 1

## **A Graft of the Tree of Life: Superstition or Medicine?**

**Alexandra Lord**

Smithsonian Institution

### PRESENTER 2

## **Invisible Worlds: Magic, Spirits, and Experience in the Early Enlightenment**

**Tricia Peone**

New Hampshire Humanities Council

### PRESENTER 3

## **Science, Magic, and Trickery in the Global Enlightenment: The Curious Case of Jean-Bernard Bossu (1720-1792)**

**Jean-Olivier Richard**

University of Toronto

### COMMENTATOR

**Michael Lynn**

Purdue University Northwest

## **The Meanings of Things: How Disability Reframes Histories of Knowledge and Its Artifacts**

### ORGANIZERS

**Jessica Martucci**

Science History Institute

**Hemachandran Karah**

Indian Institute of Technology, Madras

### CHAIR

**Amy Slaton**

Drexel University

### PRESENTER 1

**Nicole Belolan**

Rutgers University-Camden

### PRESENTER 2

**Pallavi Podapati**

Princeton University

### PRESENTER 3

**Ashley Shew**

Virginia Tech

### PRESENTER 4

**Jaipreet Virdi**

University of Delaware



## **The Septic Fringe: Developing a History of Marginalized Species**

### ORGANIZER

Matthew Holmes  
University of Cambridge

### CHAIR

Joan Steigerwald  
York University

### PRESENTER 1

## **Putrid Feavers, Morbid Ferments: Fermentation and Putrefaction in Early Modern Iatrochemistry**

Carmen Schmechel  
Freie Universität Berlin, Philosophical Institute

### PRESENTER 2

## **Spectacular Experiments and Yeasts of Harm: Modernizing Fermentation in French Indochina**

Aro Velvet  
University of Southern California

### PRESENTER 3

## **Child of Civilization: Fighting the Cockchafer Beetle in Late Nineteenth-Century France, Britain and Ceylon**

Matthew Holmes  
University of Cambridge

### PRESENTER 4

## **Unwanted: Before the Honey Bee Became Desirable**

Brenda Kellar  
Oregon State University

## **UFOs and Ufology as Transnational Phenomena**

### ORGANIZER

Greg Eghigian  
Pennsylvania State University

### CHAIR

Roshanna Sylvester  
University of Colorado Boulder

### PRESENTER 1

#### **The Tunguska Event in Soviet UFOlogy**

Andy Bruno  
Northern Illinois University

### PRESENTER 2

#### **Countercultural Religion in Extraterrestrial Space: UFO Theologies as Cold War Logics**

Kate Dorsch  
University of Pennsylvania

### PRESENTER 3

#### **UFO New Supercraft Under Test: Science, Conspiracy Theory, and the Public Response to the 1967 Shag Harbour UFO Incident**

Noah Morritt  
Memorial University of Newfoundland

### PRESENTER 4

#### **How UFOs Went Global: The Internationalization of Ufology, 1947-1980**

Greg Eghigian  
Pennsylvania State University

## **Agriculture in Colonial and Postcolonial Contexts**

### **PRESENTER 1**

#### **Fertilizer, Preservation, and the Popularization of Late-Victorian Egyptology**

Meira Gold

European University Institute

### **PRESENTER 2**

#### **Indian Engagements with Scientific Agriculture under British Colonial Rule: The Case of the United Provinces**

Sandipan Baksi

Tata Institute of Social Sciences, Mumbai, India

### **PRESENTER 3**

#### **Asceticism and Food Crops in 16th-Century Mexico**

Marlis Hinckley

Johns Hopkins University

### **PRESENTER 4**

#### **Interconnected Cropscares, Agronomists and Varieties in the Global South**

Marianna Fenzi

Laboratory for the History of Science and Technology, EPFL, Lausanne.

## **Animals in/as Technologies**

### ORGANIZERS

**Rachel A. Ankeny**

University of Adelaide

**Brad Bolman**

Harvard University

### CHAIR

**Miguel Garcia-Sancho**

University of Edinburgh

### PRESENTER 1

**Brad Bolman**

Harvard University

### PRESENTER 2

**Gina Surita**

Princeton University

### PRESENTER 3

**Christine Keiner**

Rochester Institute of Technology

### PRESENTER 4

**Rachel A. Ankeny**

University of Adelaide

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

### ORGANIZERS

Sam Schirvar

University of Pennsylvania

Jiemin Tina Wei

Harvard University

### CHAIR

Jennifer Alexander

University of Minnesota Twin Cities

### PRESENTER 1

#### **Ameliorating Worker Fatigue through the Body's Motions and Pauses: Frank and Lillian Gilbreth's "Motion Studies," 1910-1924**

Jiemin Tina Wei

Harvard University

### PRESENTER 2

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

Victor Seow

Harvard University

### PRESENTER 3

#### **HOWL! Human Factors Research on the Stressed and Strained Mind at Work during the 1970s**

Sam Schirvar

University of Pennsylvania

### COMMENTATOR

Jennifer Alexander

University of Minnesota Twin Cities

## **Credibility in Circulation**

### ORGANIZER

Gianamar Giovannetti-Singh  
University of Cambridge

### CHAIR

Pratik Chakrabarti  
University of Manchester

### PRESENTER 1

## **Monuments, astronomy, or hermeneutics? China and the invention of Enlightenment world history**

Gianamar Giovannetti-Singh  
University of Cambridge

### PRESENTER 2

## **A Once Credible Science; or, the Lost Art of Arabic Astrology**

Margaret Gaida  
Oklahoma State University

### PRESENTER 3

## **Michael Boym and the Pictorial Co-Construction of Chinese and Southeast Asian Nature**

Eszter M. Csillag  
University of Hong Kong

### COMMENTATOR

Alexander Statman  
University of Wisconsin Madison

## **Darwin and Darwinism**

### PRESENTER 1

#### **To Be Esteemed by My Fellow Scientists: Examining the “Professional Man's” Rhetoric in the Origin of Species**

Arya Mohan

The English and Foreign Languages University, India

### PRESENTER 2

#### **Beyond Sexual Selection: Darwin on Sex outside The Descent of Man**

Greg Priest

Stanford University

### PRESENTER 3

#### **A Darwinian Murder: The Role of the Barré-Lebiez Affair in the Diffusion of Darwinism in 19th-Century France**

Liv Grjebine

Harvard University ; Institut d'Histoire Moderne et Contemporaine (Université Paris 1-Panthéon La Sorbonne and l'Ecole Normale supérieure)

### PRESENTER 4

#### **Inequality and Prejudice: The Popular Visual Culture of Human Evolution in Mexico (1970-2018)**

Erica Torrens

National University of Mexico

## **Histories of Science and Capitalism in Latin America and the Caribbean**

### ORGANIZER

**Jordan A. Howell**  
Harvard University

### CHAIR

**Stuart McCook**  
University of Guelph

### PRESENTER 1

**Jordan A. Howell**  
Harvard University

### PRESENTER 2

**Angélica Márquez-Osuna**  
Harvard University

### PRESENTER 3

**Israel García Solares**  
University of California San Diego

### PRESENTER 4

**Megan Raby**  
University of Texas Austin

### PRESENTER 5

**David Singerman**  
University of Virginia



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

### ORGANIZER

Gerardo Con Diaz

University of California Davis

### CHAIR

Mary Mitchell

Purdue University

### PRESENTER 1

## **Computerizing Diagnosis: Minds, Medicine, and Machines in Twentieth-Century America**

Andrew Lea

Johns Hopkins University

### PRESENTER 2

## **The Automated Clinic: Computerized Health Testing and the Architecture of Prevention, 1960-1980**

Jeremy Greene

Johns Hopkins University

### PRESENTER 3

## **Prometheus' Patents: Owning Medical Algorithms in the 21st Century**

Gerardo Con Diaz

University of California Davis

### PRESENTER 4

## **Auto-Intimacy: Algorithmic Therapies**

Hannah Zeavin

University of California Berkeley

## **New Perspectives on Soviet Science and Society**

### ORGANIZER

Michael James Coates III

University of California, Berkeley

### CHAIR

Pey-Yi Chu

Pomona College

### PRESENTER 1

## **Making Knowledge Soviet: On the History of the Great Soviet Encyclopedia**

Michael James Coates III

University of California, Berkeley

### PRESENTER 2

## **Anxiety on the Kovalievsky: Contested Expertise in Cuban-Soviet Scientific Expeditions**

Clarissa Ibarra

University of California, Berkeley

### PRESENTER 3

## **Darwinism in the Soviet Union**

Mirjam Voerkelius

University of Maryland, Baltimore County

### PRESENTER 4

## **Soviet Hybridization and the Human-Animal Boundary**

Nicole Eaton

Boston College

## **Psychology/Psychiatry**

### PRESENTER 1

#### **Reporting Facts of Insanity around the World: The Certification of Lunacy between Stigma and Standardization (1850s-1890s)**

Filippo Maria Sposini

University of Toronto, IHPST

### PRESENTER 2

#### **The First Laboratories for Experimental Psychology in Brazil: An Intersection of Different Historiographies**

Arthur Arruda Leal Ferreira

Federal University of Rio de Janeiro (UFRJ)

Hugo Leonardo Rocha Silva da Rosa

Federal University of Rio de Janeiro (UFRJ)

### PRESENTER 3

#### **Tracing Cognitive Behavioral Therapy's Account of Cognitive Distortions**

Sahanika Ratnayake

University of Cambridge

### PRESENTER 4

#### **Rehabilitating the Veteran: Violence, Sensationalism, and Medical Treatment in Post-Civil War America**

Laura Elizabeth Smith

University of Arkansas

## **Re-Examining the Medical Encounter**

### ORGANIZERS

**Leah Astbury**

University of Cambridge

**Carolyn Schmitz**

University of Cambridge

### CHAIR

**Leah Astbury**

University of Cambridge

### PRESENTER 1

**Carolyn Schmitz**

University of Cambridge

### PRESENTER 2

**Sasha Turner**

Johns Hopkins University

### PRESENTER 3

**Elaine Leong**

University College London

### PRESENTER 4

**Philip Rieder**

University of Geneva

### PRESENTER 5

**Marta Hanson**

Johns Hopkins University

## **Waste, Resource, Residue: Chemical Histories**

### ORGANIZERS

Evan Hepler-Smith

Duke University

Laura J. Martin

Williams College

### CHAIR

Gabriela Soto Laveaga

Harvard University

### PRESENTER 1

#### **Gilbert J. Fowler (1868-1953), Energetic Holisms, and the Empire of Nitrogen in India**

N. J. Dharan

University of Pennsylvania

### PRESENTER 2

#### **Toxaphene: A Chemical History**

Evan Hepler-Smith

Duke University

### PRESENTER 3

#### **Chemical Plants and Plants That Are Chemical**

Laura J. Martin

Williams College

### PRESENTER 4

#### **E-Waste as Archive: Unsettling Technological Humanitarianism in Neoliberal Ghana**

Kwame Edwin Otu

University of Virginia

## **Building the Margins : Infrastructure and Nation at the Intersection of Sea, Sky, and Soil in China, Japan, and Korea**

### ORGANIZER

Subodhana Wijeyeratne  
Harvard University

### CHAIR

Ian Miller  
Harvard University

### PRESENTER 1

## **Cheju as Contested Model: Parasitology, Public Health, and Nation-Building in Post-Colonial South Korea, mid-1960s**

John P DiMoia  
Seoul National University

### PRESENTER 2

## **Constructing Coastal Biological Stations in 20th Century China: Tsingtao and Hong Kong**

Christine Luk  
Tsinghua University

### PRESENTER 3

## **Between the Rocket and the Deep Blue Sea: Space Exploration and the “Fishing Problem” in Southern Japan, 1950-1980**

Subodhana Wijeyeratne  
Harvard University

### COMMENTATOR

Zuoyue Wang  
California State Polytechnic University

## **Collecting and Classifying in Natural History**

### **PRESENTER 1**

#### **What the [Eighteenth Century] Whalemen Knew: Vernacular Maritime Knowledge in Lacépède's *Histoire naturelle des cétacées* (1804)**

Céline M. Stantina  
McGill University

### **PRESENTER 2**

#### **Collecting Copper Mountain: The First Botanical Collection in Denali National Park, Ynes Mexia, 1928**

Kathryn Davis  
San Jose State University

### **PRESENTER 3**

#### **Early Modern Classification of New World Insects**

Deirdre Moore  
Harvard University

### **PRESENTER 4**

#### **Facets of Fossils during the Nineteenth Century: Vertical Territory, National Heritage and Deep Time Framing**

Victor Monnin  
University of Strasbourg

## **Cultures of Observation and Experiment in Psychoanalysis**

### ORGANIZER

Andreas Mayer

French National Center for Scientific Research (CNRS)

### CHAIR

Andreas Mayer

French National Centre for Scientific Research (CNRS)

### PRESENTER 1

## **Sciences and Techniques of the Dreaming Body in the Twentieth Century**

Andreas Mayer

French Centre for National Scientific Research (CNRS)

### PRESENTER 2

## **The Ego in the Psychological Laboratory: Martin Mayman's Experiments at the Menninger Clinic**

Leah Xue

Harvard University

### PRESENTER 3

## **Science and Psyche: Assessing Therapeutic Outcomes from Freud to AI**

Elizabeth Lunbeck

Harvard University

### COMMENTATOR

John Carson

University of Michigan



## **Expertise and Exercise**

### ORGANIZERS

Katherine Contess

Brown University

Hongwei Thorn Chen

Tulane University

### CHAIR

Scott Kushner

University of Rhode Island

### PRESENTER 1

#### **Performing Expertise, Reforming Customs: Cinema, Industrial Technique, and Embodied Knowledge in Semi-Colonial China**

Hongwei Thorn Chen

Tulane University

### PRESENTER 2

#### **From the Harvard Fatigue Lab to Peloton: Towards a History of the Exercise Treadmill**

Katherine Contess

Brown University

### PRESENTER 3

#### **Faster, Higher, Stronger?: Olympic Bodies in Motion and the Loss of the “Open” Machine**

Adam Hebert

University of Pittsburgh

### PRESENTER 4

#### **Exercise Teaches You the Pleasure of Discipline: Between Female Self-Empowerment and Self-Submission in 1980s Aerobics Videos**

Melanie Woitas

Independent Scholar

## Flashtalks I

### PRESENTER 1

#### **Not Quite Filling in the Blanks: Reinterpreting Geography in French West Africa 1840-1870**

Oliver Lucier  
Yale University

### PRESENTER 2

#### **Eugenics and the Pseudoscience Demarcation**

Branden McEuen  
Wayne State University

### PRESENTER 3

#### **“A Paradoxical Ode”: James Clerk Maxwell's Poetry and Physical Science, 1844-1878**

Kristen Carlson  
University of Notre Dame

### PRESENTER 4

#### **The Conscious and the Automatic**

Lily Xiaolei Huang  
University of Chicago

### PRESENTER 5

#### **Fundamental Foundations of Practical Applications: Henry Armsby and Early 20th Century Agricultural Science**

Joshua Tonkel  
University of Notre Dame

PRESENTER 6

## **Principles of Equivalence: The Significance of Arno Peters for the History of Knowledge**

Marijn Prakke

Utrecht University

PRESENTER 7

## **Indian, Authentic and Obsolete? Late Nineteenth-Century Sanskrit Equinoctial Sundials**

Francis Newman

University of Cambridge

PRESENTER 8

## **Revolution and Influenza in the Air: The 1918 Flu Pandemic's Role in the March 1st Movement in Japanese-Occupied Korea**

Danyale Celise Kellogg

Texas A&M University

PRESENTER 9

## **Intellectual and Moral Virtues of the Japanese Bacteriological Warfare Program**

Abigail L. Holmes

University of Notre Dame

Organized Session

SHOT Joint Session

## **From “Hell with the Lid Off” to Laboratory for Academic-Industry Research: Pittsburgh and its Research Universities, 1907-1950**

### ORGANIZER

Mark Samber  
Carnegie Mellon University

### PRESENTER 1

## **Fellowships, Philanthropy, and Profit: How the Mellon Institute Fulfilled a Vision for Industrial Research, Academic Science, Public Benefit & Private Enterprise, 1907-1921**

Mark Samber  
Carnegie Mellon University

### PRESENTER 2

## **Robert Kennedy Duncan's Fraternity of Fellows: The Origins of Sponsored Industrial Research at Kansas and its Triumph in Pittsburgh, 1907-1915**

David A. Hounshell  
Carnegie Mellon University

### PRESENTER 3

## **Science in the Steel City: Metallurgy at the Carnegie Institute of Technology, 1923-1940**

Thomas Lassman  
Office of the Secretary of Defense

### COMMENTATOR

Anna Guagnini  
Independent scholar

## **Hidden Labor in the Practices of Early Modern Science**

### ORGANIZER

Alix Cooper  
Stony Brook University

### CHAIR

Alix Cooper  
Stony Brook University

### PRESENTER 1

## **The Visibility and Invisibility of Textual Technicians in Early Modern Europe**

Ann Blair  
Harvard University

### PRESENTER 2

## **Peep-Show: Hiding and Showing the Work of Charlatans in Experimental Philosophy**

Vera Keller  
University of Oregon

### PRESENTER 3

## **The Work of Family Connections: In-Laws and Other Kin in the Early Modern Sciences**

Alix Cooper  
Stony Brook University

### COMMENTATOR

Elizabeth Yale  
University of Iowa

## **Histories of the Less-Than-Known: Questions of Risk and Uncertainty in Global 20th Century Science**

### ORGANIZER

Aaron Van Neste  
Harvard University

### CHAIR

Toshihiro Higuchi  
Georgetown University

### PRESENTER 1

#### **Settling Uncertainties on Radiation Risk**

Sumiko Hatekayama  
University of Pennsylvania

### PRESENTER 2

#### **Many Anomalies Which I Cannot Explain: Early Twentieth-Century Actuarial Science and the Making of the Semi-Tropics**

Rachel Bunker  
Rutgers University

### PRESENTER 3

#### **The Power to Become a Monster: Pregnancy as a Site of Risk in Early Twentieth-Century Biology and Medicine**

Miriam Rich  
Yale University

### PRESENTER 4

#### **They Rarely Remain Steady for Long: Fluctuations of Marine Species and the Question of Sustainable Fisheries**

Aaron Van Neste  
Harvard University

## **Hunger and Nutrition**

### PRESENTER 1

#### **Protein and the Post-Eugenic Politics of Nutrition**

Hannah LeBlanc

Cornell University

### PRESENTER 2

#### **Seeing like an Engineer: Thermodynamics and the Politics of the Factory Diet in Early 20th Century China**

Seung-joon Lee

National University of Singapore

### PRESENTER 3

#### **The Metamorphoses of the Meaning of Hunger in Brazil (1930-1940)**

Adriana Salay Leme

São Paulo University

### PRESENTER 4

#### **Putting the “Burden of Evidence” on the Consumer: The Fleischmann's Yeast for Health Campaign in the 1920s**

Lisa Haushofer

University of Toronto

## **Revisiting Master Narratives**

Sponsored by Early Sciences Working Group

### ORGANIZERS

**Hannah Marcus**

Harvard University

**Anne-Laurence Caudano**

University of Winnipeg

### CHAIR

**Pablo Gomez**

University of Wisconsin Madison

### PRESENTER 1

**Reviel Netz**

Stanford University

### PRESENTER 2

**Karine Chemla**

### PRESENTER 3

**Pamela H. Smith**

Columbia University

### PRESENTER 4

**Minakshi Menon**

Max Planck Institute for the History of Science, Berlin



## **Should Historians of Science Know the Contents of Science?**

### ORGANIZER

**Somaditya Banerjee**

Austin Peay State University

### CHAIR

**Matthew Stanley**

New York University

### PRESENTER 1

**Somaditya Banerjee**

Austin Peay State University

### PRESENTER 2

**Mohandas Towne**

Arizona State University

### PRESENTER 3

**Deepanwita Dasgupta**

University of Texas

### PRESENTER 4

**Animesh Chatterjee**

Leeds Trinity University

### PRESENTER 5

**Joseph Martin**

Durham University

### PRESENTER 6

**Agnes Bolinska**

University of Cambridge

## **Technopolitics, Capital, and Knowledge**

### ORGANIZER

Hippolyte A. Goux

University of California Los Angeles

### CHAIR

Victor Seow

Harvard University

### PRESENTER 1

## **Knowledge Work and Automation: Peter F. Drucker and the Management Response to Technological Change, 1950-1990**

Erik Baker

Harvard University

### PRESENTER 2

## **The Economics of Computer Science Education**

Sanaa Khan

University of California, San Diego

### PRESENTER 3

## **The Ordering of Economic Things**

Hippolyte A. Goux

University of California Los Angeles

### COMMENTATOR

Panel Discussion

## **Vital Signs: Grids, Galvanisms, and the Sociopolitics of Electricity**

### ORGANIZERS

Samantha Wesner

Cornell University

Michael Degani

Johns Hopkins University

### CHAIR

Michael Degani

Johns Hopkins University

### PRESENTER 1

## **Men of the Future May Become as Gods: Tesla's Wireless Electricity and the Dream of Infinite Energy**

Iwan Rhys Morus

Aberystwyth University

### PRESENTER 2

## **Beyond electric despotism: the myth of the grid in postcolonial India**

Elizabeth Chatterjee

Queen Mary University of London

### PRESENTER 3

## **Electrical Palestine: Technocapitalism & the Arab-Israeli Conflict**

Fredrik Meiton

University of New Hampshire

### PRESENTER 4

## **Great Shock of Civic Electricity: Electrical Vitalism and Collective Sentiment in the French Revolution**

Samantha Wesner

Cornell University

## **Collaborative Pedagogies for the Global History of Science**

Sponsored by Committee on Education and Engagement

### ORGANIZER

**N. J. Dharan**

University of Pennsylvania

### CHAIR

**Sebastián Gil-Riaño**

University of Pennsylvania

### PRESENTER 1

**Taylor Dysart**

University of Pennsylvania

### PRESENTER 2

**Claire Conklin Sabel**

University of Pennsylvania

### PRESENTER 3

**Koyna Tomar**

University of Pennsylvania

### PRESENTER 4

**Julia Rodriguez**

University of New Hampshire

### PRESENTER 5

**Genie Yoo**

Princeton University

### PRESENTER 6

**Kelcey Gibbons**

University of Pennsylvania

### PRESENTER 7

**Tathagat Bhatia**

University of Pennsylvania

## **Collections and Community Engagement**

Sponsored by Collections, Archives, Libraries, and Museums (CALM) Caucus

### ORGANIZERS

**Benjamin Gross**

Linda Hall Library

**Pedro Raposo**

Adler Planetarium

### CHAIR

**Pedro Raposo**

Adler Planetarium

### PRESENTER 1

**Hans Hooijmaijers**

Rijksmuseum Boerhaave

### PRESENTER 2

**Peggy Kidwell**

National Museum of American History

### PRESENTER 3

**Anna Toledano**

Stanford University

### PRESENTER 4

**Lilla Vekerdy**

Smithsonian Libraries

Organized Session

SHOT Joint Session

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

PRESENTER 1

### **Disease and the State in Late Ottoman Iraq, 1821-1899**

Isacar A. Bolaños

California State University, Long Beach

PRESENTER 2

### **Sanitation in the time of Cholera: Spain, Epidemics and the Dirección General de Beneficencia y Sanidad, 1830-1860**

Ruth A. Oropeza

University of Arizona

PRESENTER 3

### **Contested Quarantines and Interruptions: The Effects of Cholera on Late Ottoman Mobilities**

Alex Schweig

University of Arizona

COMMENTATOR

Panel Discussion

## **Decolonizing the History of Science in Asia**

Sponsored by Forum for the History of Science in Asia

### ORGANIZERS

**Sigrid Schmalzer**

University of Massachusetts Amherst

**Minakshi Menon**

Max Planck Institute for the History of Science, Berlin

### CHAIR

**Minakshi Menon**

Max Planck Institute for the History of Science, Berlin

## **Ephemeral Phenomena: Science and Technology in Experimental and Observational Research**

Sponsored by Physical Sciences Forum

### ORGANIZER

Amy Fisher  
University of Puget Sound

### CHAIR

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

### PRESENTER 1

## **Storm Snapshots: The Use of Amateur Photography in Tornado Science**

Kathryn B. Carpenter  
Princeton University

### PRESENTER 2

## **The Animal Furnace: Technological Analogs of Natural Systems in Nineteenth Century Chemistry**

Amy Fisher  
University of Puget Sound

### PRESENTER 3

## **Rivers of the Bomb: Modeling Historical Doses of Radiation After the Cold War in the United States and Russia**

Jacob D. Hamblin  
Oregon State University

### PRESENTER 4

## **Teaching Microscopy at the Limits of Optical Interpretation: The Zeiss Vacation Courses, 1904-1924**

Daniel Liu  
ICI Berlin Institute for Cultural Inquiry



## **Extraction, Reaction, Production: Telling the Histories of Chemistry through Labor**

Sponsored by Forum for the History of the Chemical Sciences

### ORGANIZER

**Alison McManus**  
Princeton University

### CHAIR

**Projit Mukharji**  
University of Pennsylvania

### PRESENTER 1

## **Illicit Chemical Medicine in Early Modern England: The Trials of the Royal College of Physicians**

**Megan Piorko**  
Science History Institute

### PRESENTER 2

## **The Chymistry of Drudgery**

**Simon Werrett**  
University College London

### PRESENTER 3

## **Constructing a Magic Bullet: DDT and its Auxiliaries in the Sardinian Anti-Malaria Campaign, 1946-1950**

**Alison McManus**  
Princeton University

### COMMENTATOR

**Lissa Roberts**  
University of Twente; Editor-in-Chief, History of Science

## Flashtalks II

### PRESENTER 1

#### **Medical Devices and Social Networks: Two Nordic Examples, 1870 - 1900**

Kristin M. Halverson

Södertörn University, School of Historical and Contemporary Studies, Baltic and East European Graduate School

### PRESENTER 2

#### **Smuggling the Sacred as Specimen: Objects, Instruments and the “Scientifically Valuable” in the Peruvian Expedition of Hiram Bingham**

Charlotte M. Williams

University of Pennsylvania

### PRESENTER 3

#### **Technical Assistance and Scientific Diplomacy between Mexico and Japan: The Arrival of Plant Tissue Culture to Mexico**

Daniela Santamaria Jimenez

National Autonomous University of Mexico

### PRESENTER 4

#### **An Ottoman Materialist: Subhi Edhem**

Batuhan Akgündüz

Ankara University

### PRESENTER 5

#### **Before “C.S.” Was “Computer Science”: Linguistics, Cybernetics, and the “Communication Sciences” at the University of Michigan**

Tasha Schoenstein

Harvard University

### PRESENTER 6

#### **The Bataan Nuclear Power Plant: Imaginaries of Fear and Reason of State**

Benedict Salazar Olgado

University of California, Irvine & University of the Philippines

PRESENTER 7

## **Paleontology and Imagined Geography in Russia**

Reese Fulgenzi  
University of Chicago

PRESENTER 8

## **Crisis Communications, Scientific Institutions, and Public Trust: The 1979 Accident at the Three Mile Island Nuclear Power Plant**

Hannah Elaine Pell  
Independent Scholar

PRESENTER 9

## **“Shadow Boxing”: The Postwar Fall of Vannevar Bush**

Johnny Miri  
Independent Scholar

## **Integrated Courses: Benefits, Challenges, and Successes**

Sponsored by Committee on Education and Engagement

### ORGANIZERS

**Gregory L. Macklem**

University of Notre Dame

**Anna Geltzer**

University of Notre Dame

### CHAIR

**Gregory L. Macklem**

University of Notre Dame

### PRESENTER 1

**Davdi Brandon Dennis**

Dean College

### PRESENTER 2

**Jessica Pisano**

Dean College

### PRESENTER 3

**Rob A. Lawson**

Dean College

### PRESENTER 4

**Eleanor Louson**

Michigan State University

### PRESENTER 5

**Eunjeong Ma**

POSTECH (Republic of Korea)

### PRESENTER 6

**Erik L. Peterson**

University of Alabama

PRESENTER 7

**Anna Geltzer**

University of Notre Dame

Roundtable

SHOT Joint Session

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

### ORGANIZERS

**Ranjodh Singh Dhaliwal**

UC Davis

**Crystal Lee**

MIT

### CHAIR

**Ranjodh Singh Dhaliwal**

UC Davis

### PRESENTER 1

**Crystal Lee**

MIT

### PRESENTER 2

**Laine Nooney**

NYU

### PRESENTER 3

**Mar Hicks**

Illinois Institute of Technology

### PRESENTER 4

**Bess Williamson**

Art Institute of Chicago

### PRESENTER 5

**Whitney Pow**

Northwestern/NYU

### PRESENTER 6

**Xiaochang Li**

Stanford University

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

Sponsored by Forum for the History of the Mathematical Sciences (FoHoMS)

### ORGANIZER

Nicolas Michel

Université de Paris, SPHERE

### CHAIR

Jemma Lorenat

Pitzer College

### PRESENTER 1

## **Nature in Mathematics after Newton: The Epistemic Priority of Mathematics in The Analyst Controversy**

Julia C. Tomasson

Columbia University

### PRESENTER 2

## **Clever Artifice or Signpost to the Hidden Nature of Things? The Circulation of Leibniz's Analogy of Powers and Differences**

David Waszek

McGill University

### PRESENTER 3

## **Sweet Is the Lore Which Nature Brings: Clarity, Simplicity, and Naturalness in Chasles' and Poincaré's Geometrical Mechanics**

Nicolas Michel

Université de Paris, SPHERE

### COMMENTATOR

Michael J. Barany

University of Edinburgh

## **The Future of Digital Humanities in the History of Science and Technology**

Sponsored by Technology and Communication Committee

### ORGANIZER

**Kathleen Sheppard**  
Missouri S&T

### CHAIR

**Stephen Weldon**  
University of Oklahoma

### PRESENTER 1

**Sarah Naramore**  
The University of the South (Sewanee)

### PRESENTER 2

**Andreas Weber**  
University of Twente

### PRESENTER 3

**Abraham Gibson**  
University of Texas San Antonio

### PRESENTER 4

**James Fleming**  
Colby College

### PRESENTER 5

**Jerome Baudry**  
EPFL

### PRESENTER 6

**Alex Weaver**

### PRESENTER 7

**Laurynas Adomaitis**  
Scuola Normale Superiore



PRESENTER 8

**Molly Stothert-Maurer**

Arizona State Museum

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

### ORGANIZER

Simon Torracinta  
Yale University

### CHAIR

Dana Simmons  
University of California Riverside

### PRESENTER 1

#### **Simulation, Industrial Labor, and Economic Pathologies circa 1900**

Nima Bassiri  
Duke University

### PRESENTER 2

#### **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**

Danielle Carr  
Columbia University

### PRESENTER 3

#### **Time, Labor, and Motivation in Midcentury Economics**

Simon Torracinta  
Yale University

### PRESENTER 4

#### **The 100xr Road to Neoliberalism: Engineers, Meritocracy, and Economic Inequality, 1950-2000**

Charles Petersen  
Harvard University

## **Demography, Diversity, and the Transformation of the History of Science**

### ORGANIZER

**Alexandra Hui**  
Mississippi State University

### CHAIR

**Suman Seth**  
Cornell University

### PRESENTER 1

**Projit Mukharji**  
University of Pennsylvania

### PRESENTER 2

**Emily Merchant**  
University of California Davis

### PRESENTER 3

**Elise Burton**  
University of Toronto

### PRESENTER 4

**Terence Keel**  
University of California Los Angeles

### PRESENTER 5

**Sebastian Gil-Riano**  
University of Pennsylvania

### PRESENTER 6

**Ahmed Ragab**  
Harvard University

## **Fellowships in the History of Science: Everything You Need to Know**

### ORGANIZERS

**Katherine M. Reinhart**

Consortium for History of Science, Technology & Medicine

**Megan Piorko**

Science History Institute

### CHAIR

**Katherine M. Reinhart**

Consortium for History of Science, Technology & Medicine

### PRESENTER 1

**Babak Ashrafi**

Consortium for History of Science, Technology & Medicine

### PRESENTER 2

**Adrianna Link**

American Philosophical Society

### PRESENTER 3

**Pedro Raposo**

Adler Planetarium

### PRESENTER 4

**Daniel Jon Mitchell**

Center for Historical Research at the Science History Institute

### PRESENTER 5

**Benjamin Gross**

Linda Hall Library

### PRESENTER 6

**Hannah Anderson**

University of Pennsylvania

## **Actors' Categories: Language, Power, and Historical Analysis**

### ORGANIZERS

**Mary X. Mitchell**

Purdue University

**Stephanie A. Dick**

University of Pennsylvania

### CHAIR

**Laura Stark**

Vanderbilt University

### PRESENTER 1

**Henry M. Cowles**

University of Michigan

### PRESENTER 2

**Stephanie A. Dick**

University of Pennsylvania

### PRESENTER 3

**Isabel Gabel**

University of Pennsylvania

### PRESENTER 4

**Lukas Rieppel**

Brown University

### PRESENTER 5

**Mary X. Mitchell**

Purdue University

### PRESENTER 6

**Marc Aidinoff**

Massachusetts Institute of Technology

## **Animal, Vegetable, Mineral: Material Tools for Archiving Time**

### ORGANIZER

Alexis Rider

University of Pennsylvania

### CHAIR

Joanna Radin

Yale University

### PRESENTER 1

## **On Colony Time: Thinking Decay and Renewal with Dermestid Beetles**

Spencer Weinreich

Princeton University

### PRESENTER 2

## **Proxy Perceptions of Climate and Time**

Melissa Charenko

Michigan State University

### PRESENTER 3

## **On Blue Ice: Antarctic Meteorites and Deepening Planetary Time**

Alexis Rider

University of Pennsylvania

### COMMENTATOR

Joanna Radin

Yale University

## **Animating Technoscience: Imagination, Production, and Representation**

### ORGANIZERS

**Michael J. Meindl**

Radford University and Virginia Tech

**Matthew Wisnioski**

Virginia Tech

### CHAIR

**Hanna Shell**

University of Colorado Boulder

### PRESENTER 1

## **Animating Biology and the Biology of Animation: The Technoscience of Disney's Fantasia**

**Colin Williamson**

Rutgers University - New Brunswick

### PRESENTER 2

## **Motion, Emotion, and the Human in the Computer: Motion Models and Computerized Bodily Form, 1971-1981**

**Alana Staiti**

National Museum of American History, Smithsonian Institution

### PRESENTER 3

## **Take Chances! Make Mistakes! Get Messy!: The Magic School Bus and the Reanimation of Science Education in the 1990s**

**Michael J. Meindl**

Radford University and Virginia Tech

**Matthew Wisnioski**

Virginia Tech

## **Virtual Film Production: Surfing the Database, Democratizing Technology?**

Rebecca A. Perry

Space History, Smithsonian National Air and Space Museum, Washington, D.C.



## **Cybernetic Entanglements: The Human, Environment and Second-Order Cybernetics**

### ORGANIZER

Angelica Barbara Clayton  
Yale University

### CHAIR

Carolyn Kane  
Ryerson University

### PRESENTER 1

## **Diagnosing the Embodied Mind: Schizophrenia and Gregory Bateson's "Ecology of Mind"**

Angelica Barbara Clayton  
Yale University

### PRESENTER 2

## **Tinkering with Gaia: Engineering and Evolution in the Earth System**

Caitlin Kossmann  
Yale University

### PRESENTER 3

## **My Eyes Make Pictures When They Are Shut: John C. Lilly and the Echo of Observation**

Jeffrey Mathias  
Cornell University

### PRESENTER 4

## **Touching Emotions at Rockland State Hospital: Manfred Clynes and the Datafication of Feeling, 1956-1972**

Jeff Nagy  
Stanford University

## **History of Interpretations of Quantum Physics**

### **ORGANIZER**

Gustavo Rodrigues Rocha

Universidade Estadual de Feira de Santana

### **CHAIR**

Olival Freire

Universidade Federal da Bahia

### **PRESENTER 1**

#### **The Foundations of Quantum Mechanics in Post-War Italy's Cultural Context**

Flavio Del Santo

Faculty of Physics, University of Vienna

### **PRESENTER 2**

#### **Rewriting the History of the Foundations of Quantum Mechanics: The Madame Wu Case**

Indianara Lima Silva

Universidade Estadual de Feira de Santana

### **PRESENTER 3**

#### **David Bohm (1917-1992) - Biography of a Major Quantum Dissident**

Olival Freire Junior

Universidade Federal da Bahia

### **PRESENTER 4**

#### **A Brief Historical Perspective on the Consistent Histories Interpretation of Quantum Mechanics**

Gustavo Rodrigues Rocha

Universidade Estadual de Feira de Santana

## **Legacies of Silent Spring I: Ecology, Pollution, Industry, Environmental Activism**

### ORGANIZER

Marsha L. Richmond  
Wayne State University

### CHAIR

Fritz Davis  
Purdue University

### PRESENTER 1

## **Ruth Patrick, DuPont, and the Biological Monitoring of Pollution in the US, 1950-1970**

Ryan Hearty  
Johns Hopkins University

### PRESENTER 2

## **Chronobiology and Environmental Impact in Projects Sanguine and Seafarer**

Jole Shackelford  
University of Minnesota

### PRESENTER 3

## **Stressful Environments: Nuclear Power and the Politics of Public Health**

David K. Hecht  
Bowdoin College

### PRESENTER 4

## **Theo Colborn, the Great Lakes, and the Discovery of Endocrine Disruption**

Marsha L. Richmond  
Wayne State University

## **Libraries and Mathematics: Rethinking “the Mathematician's Laboratory”**

### ORGANIZERS

**Michael J. Barany**

University of Edinburgh

**Kevin Lambert**

California State University Fullerton

### CHAIR

**Joan Richards**

Brown University

### PRESENTER 1

## **The Malthus Library: The Library as Cognitive Instrument in the Making of the Malthusian Population Principle**

**Kevin Lambert**

California State University Fullerton

### PRESENTER 2

## **Shaping a Model Library in Göttingen: Felix Klein and the Spaces of Professional Mathematics**

**Jenne O'Brien**

Princeton University

### PRESENTER 3

## **Having No Books to Speak Of: The Mathematical Self-Education of Oliver Heaviside**

**Bruce J. Hunt**

University of Texas Austin

## **The Scripta Mathematica Library and the “Survival” of Mathematics in America**

Ellen Abrams  
Cornell University

## **Medieval and Early Modern Reading Practices**

### **PRESENTER 1**

#### **Acts of Non-Reading and the Production of Knowledge in Early Modern Europe**

Raz Chen-Morris

Hebrew University of Jerusalem

### **PRESENTER 2**

#### **Reading the Philosophical Transactions: The English Manuscript Notes of Nicolaus Steno (1638-1686)**

Nuno Castel-Branco

Johns Hopkins University

### **PRESENTER 3**

#### **Taking the Pulse in the Marketplace of Print in Seventeenth-Century England**

Yijie Huang

Department of History and Philosophy of Science, University of Cambridge

### **PRESENTER 4**

#### **Seriously? Humor as an Invisible Genre in Medieval Medical Manuscripts**

Carol Pal

Bennington College

## **Multispecies Metabolisms, Organismic Technologies, and Industrialization of Life**

### ORGANIZER

Charles A. Kollmer  
Princeton University

### CHAIR

Evan Hepler-Smith  
Duke University

### PRESENTER 1

#### **Tinkering with “Bovine Alchemy”: A Brief History of Rumenology**

Nicole Welk-Joerger  
University of Pennsylvania

### PRESENTER 2

#### **Feeding Our Food: Medicated Feed and the History of Making Amino Acids from Fossil Fuels**

Hannah Landecker  
University of California Los Angeles

### PRESENTER 3

#### **Cultured Life and Manufactured Milieus: Sciences of Plant Metabolism in Imperial Germany**

Charles A Kollmer  
Princeton University

### COMMENTATOR

Heather Paxson  
Massachusetts Institute of Technology

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

### ORGANIZER

**Ivano Dal Prete**  
Yale University

### CHAIR

**Lydia Barnett**  
Northwestern University

### PRESENTER 1

**Ivano Dal Prete**  
Yale University

### PRESENTER 2

**JB Shank**  
Northwestern University

### PRESENTER 3

**Sabrina Ferri**  
University of Notre Dame

### PRESENTER 4

**Hanna Roman**  
Dickinson College

### PRESENTER 5

**Anton Matytsin**  
University of Florida



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

### ORGANIZER

Noa Nahmias  
York University

### CHAIR

Grace Shen  
Fordham University

### PRESENTER 1

## **Identifying the Modern Nation: Late-Qing Mapping Across Science and Culture, 1887-1912**

Rachel Wallner  
Northwestern University

### PRESENTER 2

## **Japanese Anthropology and its Colonial Enterprise: A Case Study of the 1903 Human Pavilion**

Midori Kawaue  
Princeton University

### PRESENTER 3

## **The Universe of Science at Your Doorstep: Popular Science between National and Global in China, 1933-1937**

Noa Nahmias  
York University

### PRESENTER 4

## **Postcolonial Science in Korea: Gendered Stem Cells and Technoscientific Sovereignty**

Haesoo Park  
Institute of Science and Technology for Humanity, Nanyang Technological University



## **Scientific Credibility**

### PRESENTER 1

#### **Adorned, Embellished, and Ornamented: Science, Fashion, and Credibility in the Early Royal Society**

Sadie Harrison  
Independent Scholar

### PRESENTER 2

#### **Scientists on the Verge of a Nervous Breakdown**

Alexis Turner  
Harvard University

### PRESENTER 3

#### **Social Science for What? Wasting Taxpayer Dollars, Winning Golden Fleece Awards**

Mark Solovey  
University of Toronto

### PRESENTER 4

#### **Tides of Irrationality**

Taner Edis  
Truman State University

## **Animal Materialities**

### ORGANIZERS

Laurence Douny

Humboldt Universität zu Berlin

Lisa Onaga

Max Planck Institute for the History of Science

### CHAIR

Evan Hepler-Smith

Duke University

### PRESENTER 1

## **Waste Not: Animal Fats, Animal Chemistry and Soap amid Changing Industrial Practices 1750-1860**

Sarah Lowengard

### PRESENTER 2

## **When Is a Solution a Problem? Animal Glues in Laboratories and Workshops in Twentieth-Century Japan**

Sarah Teasley

Royal College of Art

### PRESENTER 3

## **Degumming West African Wild Silks in the 20th and 21st Century Burkina Faso**

Laurence Douny

Humboldt Universität

### PRESENTER 4

## **Biomaterial Matters: A History of Interstitial Things**

Lisa A. Onaga

Max Planck Institute for the History of Science

## **Gender and Work in the Mathematical Sciences**

### ORGANIZER

**Andrew Fiss**

Michigan Technological University

### CHAIR

**Ellen Abrams**

Cornell University

### PRESENTER 1

## **Real Working Men: Performing Gender in Nineteenth-Century Mathematical Logic**

**David Dunning**

Princeton University/Oxford University

### PRESENTER 2

## **The Paper for Practical Men: Transnational Constructions of Engineering Identities through Periodicals**

**Andrew Fiss**

Michigan Technological University

**Laura Kasson Fiss**

Michigan Technological University

### PRESENTER 3

## **Men Play, Women Care? The Different Experiences of “Becoming a Mathematician” among Contemporary Male and Female Early Career Mathematicians**

**Milena Kremakova**

University of Halle-Wittenberg

## **Subjectivity, Epistemology, and Quantum Theory: Making Way for Intersubjectivity**

Tori Reeder

Michigan Technological University

## **Histories of Data and the Data of History**

### ORGANIZER

**Joy Lisi Rankin**

New York University

### CHAIR

**David Singerman**

University of Virginia

### PRESENTER 1

**Kathleen Sheppard**

Missouri S & T

### PRESENTER 2

**Samantha Muka**

Stevens Institute of Technology

### PRESENTER 3

**Megan Formato**

Stanford University

### PRESENTER 4

**Michael McGovern**

Princeton University

### PRESENTER 5

**Joy Lisi Rankin**

New York University

## **Legacies of Silent Spring II: From Scientist to Nation**

### ORGANIZER

Sabine Marie Clarke  
University of York, UK

### CHAIR

Frederick Davis  
Purdue University

### PRESENTER 1

#### **Applied Ecology at the Academy of Natural Sciences of Philadelphia, 1970-1990**

LLoyd Ackert  
Drexel University

### PRESENTER 2

#### **The Power of the Periphery: How Norway Became an Environmental Pioneer for the World**

Peder Anker  
New York University

### PRESENTER 3

#### **The Construction of a Sentinel Species: Louis Guillette and Lake Apopka's Alligators**

Mark Barrow  
Virginia Polytechnic Institute and State University

### PRESENTER 4

#### **Slow, Mediated and Uneven: Rewriting the History of Pesticide Use in British Farming**

Sabine Marie Clarke  
University of York

Thomas Lean  
University of York



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

### ORGANIZER

Tillmann Taape  
Huntington Library

### CHAIR

Pamela Smith  
Columbia University

### PRESENTER 1

## **From Erfahrung to Expérience: Vernacular Traditions of Experiential Knowledge in French and German Technical Literature**

Tillmann Taape  
Huntington Library

### PRESENTER 2

## **Semi-distant Reading: A Data-rich Approach to Early Modern Technical Literature.**

Clément Godbarge  
Columbia University

### PRESENTER 3

## **From Watching to Working: Incorporating “Making and Knowing” Activities into a History of Science Course**

Monique O'Connell  
Wake Forest University

Paul Jones  
Wake Forest University

### COMMENTATOR

Panel Discussion

## **Narrative as Practice in the Life Sciences**

### ORGANIZERS

**Rachel Mason Dentinger**

University of Utah

**Tina Gianquitto**

Colorado School of Mines

### CHAIR

**Rachel Mason Dentinger**

University of Utah

### PRESENTER 1

**Jelagat D. Cheruiyot**

Tulane University

### PRESENTER 2

**Mary Bowden**

University of Delaware

### PRESENTER 3

**Don Opitz**

DePaul University

### PRESENTER 4

**Tina Gianquitto**

Colorado School of Mines

### PRESENTER 5

**Sunshine Van Bael**

Tulane University

### PRESENTER 6

**Rachel Mason Dentinger**

University of Utah

### PRESENTER 7

**Joshua Lewis**

Tulane University

PRESENTER 8

**John Beatty**

University of British Columbia

## **Navigating the Profession with Chronic Illness or Invisible Disabilities**

### ORGANIZER

**Allison Marsh**

University of South Carolina

### CHAIR

**Allison Marsh**

University of South Carolina

### PRESENTER 1

**E. Allen Driggers**

Tennessee Technological University

### PRESENTER 2

**Jillian Hinderliter**

University of South Carolina

### PRESENTER 3

**Caroline Peyton**

University of Memphis

### PRESENTER 4

**Laura Smith**

University of Arkansas

## **New Light on Science and Nazism**

### ORGANIZER

**Mark Walker**

Union College

### CHAIR

**Kathryn Olesko**

Georgetown University

### PRESENTER 1

## **Max Planck (1858-1947) and Johannes Stark (1874-1957): Science Policymakers during the Third Reich**

**Dieter Hoffmann**

Max Planck Institute for the History of Science, Berlin

### PRESENTER 2

## **Aryan Physics after Hitler**

**Ryan Dahn**

Consortium for History of Science, Technology, and Medicine, Philadelphia

### PRESENTER 3

## **Werner Heisenberg and National Socialism**

**Mark Walker**

Union College

### COMMENTATOR

**Richard H. Beyler**

Portland State University

## **Science and Religion**

### PRESENTER 1

#### **Campanella, Galileo, and the Clash for the New Science at the Court of Urban VIII**

Stefano Gattei  
University of Trento

### PRESENTER 2

#### **From Design to Self-Organizing Nature? Postsecular Insights on the Emergent Ecology of James Dwight Dana and Asa Gray**

Lucas Nossaman  
University of Tennessee Knoxville

### PRESENTER 3

#### **Institutional Religious Healing And Hospitals: The Christian Science Benevolent Association**

Alexandra L. Prince  
The University at Buffalo (SUNY)

### PRESENTER 4

#### **Science and the Counterculture: American Humanism, Religion, and Race**

Stephen P. Weldon  
University of Oklahoma

## **Teaching beyond the Canon in the History of Science**

### ORGANIZER

**Courtney E. Thompson**

Mississippi State University

### CHAIR

**Matthew Lavine**

Mississippi State University

### PRESENTER 1

**Tamara Caulkins**

Douglas Honors College, Central Washington University

### PRESENTER 2

**Kathleen Crowther**

University of Oklahoma

### PRESENTER 3

**Antoine R. Leveque**

Paris 7, France

### PRESENTER 4

**Wayne Soon**

Vassar College

### PRESENTER 5

**Blair Stein**

Clarkson University

### PRESENTER 6

**Courtney E. Thompson**

Mississippi State University

### PRESENTER 7

**Honghong Tinn**

University of Minnesota Twin Cities

PRESENTER 8

**Sarah Walsh**

Washington State University



## **Technologies of the Earth and the Skies**

### **CHAIR**

Edna Suárez-Díaz

Universidad Nacional Autónoma de México

### **PRESENTER 1**

## **The Overshadowed Revolution: Isotopic Insights Remake and Unify Earth and Planetary Science**

Keith A. Nier

Independent Scholar

### **PRESENTER 2**

## **Three Discoveries and the Truth: Stratospheric Ozone and the Opening of a New Frontier**

Terrence R. Nathan

University of California, Davis

### **PRESENTER 3**

## **Tremulous Media: Nature, Technology, and the Seismic Imagination**

Debjani Dutta

University of Southern California

### **PRESENTER 4**

## **Perennial Environmental Crisis and Health Challenges of Oil Exploration and Gas Flaring in Nigeria since 1958.**

Olusegun James Adeyeri

Lagos State University, Ojo, Nigeria.

## **Transmitting Knowledge**

### **PRESENTER 1**

#### **Nuance Lost in Translation: Interpretations of J. F. Blumenbach's Anthropology in the English Speaking World.**

John S. Michael  
Independent Scholar

### **PRESENTER 2**

#### **Knowledge Transposition in the Construction of Narratives for Indian Megaliths in the Nineteenth Century**

Charlotte Coull  
The University of Manchester

### **PRESENTER 3**

#### **The Production of Knowledge: A Path Not Taken**

Ohad Reiss Sorokin  
Princeton University

### **PRESENTER 4**

#### **Visualizing Scientific Equity: Oral History Interviews with African Scientists on Video**

Abena Dove Osseo-Asare  
University of Texas Austin

## **Visioneering Past and Future in Science Museums and Educational Technologies**

### ORGANIZER

Elizabeth Renee Petrick  
Rice University

### CHAIR

Patrick McCray  
UNIVERSITY OF CALIFORNIA, SANTA BARBARA

### PRESENTER 1

## **The Revolutionary Avant-Gard? Imagineering Scientific Modernity in Moscow Museum of Biology in the 1920s**

Elena Aronova  
University of California, Santa Barbara

### PRESENTER 2

## **Curatorial Visions of the Future**

Petrina Foti  
Loughborough University

### PRESENTER 3

## **Throwback Culture: The Role of Nostalgia in American Educational Technology**

Morgan G. Ames  
University of California, Berkeley School of Information

### PRESENTER 4

## **Replacing Visions: The Notetaker Prototype and the Loss of Education**

Elizabeth Renee Petrick  
Rice University

## **Embodied Science: The Marginalized Body as an Agent of Scientific and Social Transformation**

### ORGANIZER

Sara Ray  
University of Pennsylvania

### CHAIR

Wangui Muigai  
Brandeis University

### PRESENTER 1

## **Perfect, and without Defect: Medicalizing the Body & the Sciences of Same-Sex Desire**

Patrícia Martins Marcos  
University of California San Diego

### PRESENTER 2

## **Embryology and Armenzorg: Teratological Expertise in the Formation of Dutch Disability Policy, 1815-1850**

Sara Ray  
University of Pennsylvania

### PRESENTER 3

## **Tropical Botany and Debilitating Climates in the Nineteenth Century Gulf South**

Elaine LaFay  
Rutgers State University

### PRESENTER 4

## **Black Eugenics and the Struggle for Racial Equality, 1900-1940**

Ayah Nuriddin  
Johns Hopkins University

## **Histories of Botany and Medicine**

### **PRESENTER 1**

#### **Challenges to Identifying Ancient Substances in Chinese Materia Medica**

Sean T. Bradley

University of Washington

### **PRESENTER 2**

#### **Indigenous Scientific Knowledges and the Archive: Health, Illness, and Healing in the 1577 Relaciones geográficas**

Kelly McDonough

University of Texas Austin

### **PRESENTER 3**

#### **Producing and Reproducing Botanical Illustrations in the Horti medici Amstelodamensis (1697-1701)**

Jessie Wei-Hsuan Chen

Utrecht University

### **PRESENTER 4**

#### **Time and Culture in Carl Linnaeus' Ethno-racial Classifications**

Monica Libell

Lund University, Sweden

## **Human - Animal**

### **PRESENTER 1**

#### **Animals invisible to the naked eye: Victorian Animalcules as Animals**

Meegan Kennedy

Florida State University

### **PRESENTER 2**

#### **Killing for Science: Insect Collecting in the Long Nineteenth Century**

L. Joanne Green

University of Cambridge

### **PRESENTER 3**

#### **Prosperity through “Beeconomy”: American Women in Beekeeping, 1870-1900**

Leah Malamut

University of Minnesota

### **PRESENTER 4**

#### **Sentinels in the Dark of Night: Medicine and the Ambulance Dog in the First World War**

Aparna Nair

University of Oklahoma-Norman

## **Maritime Cultures and the Translation of Scientific Knowledge**

### ORGANIZER

Judy Johns Schloegel

Independent Scholar

### CHAIR

Christine Keiner

Rochester Institute of Technology

### PRESENTER 1

## **The Use of Images in the Debate between Haeckel and Hensen over the Role of Plankton**

Katharina Steiner

University of Wisconsin Madison and University of Geneva

### PRESENTER 2

## **Local Labor, Transnational Science: Producing Scientific Objects and Inscriptions in the Dutch East Indies, circa 1900**

Emily Hutcheson

University of Wisconsin Madison

### PRESENTER 3

## **Instituting Biology in the Great Lakes: Scientific Survey Work and Inland Seas Maritime Culture, 1893-1903**

Judy Johns Schloegel

Independent Scholar

### COMMENTATOR

Alistair Sponsel

Cold Spring Harbor Laboratory

## Mathematics and the People

### ORGANIZERS

**Abram Kaplan**

Harvard Society of Fellows

**Jemma Lorenat**

Pitzer College

### CHAIR

**Jemma Lorenat**

Pitzer College

### PRESENTER 1

## **It Is Good That Math Is Hard: Math and Social Theory from Descartes to Rousseau**

**Abram Kaplan**

Harvard Society of Fellows

### PRESENTER 2

## **Recreational Mathematics and Mathematics by the People: Folding as a Case Study**

**Michael Friedman**

Humboldt University of Berlin

### PRESENTER 3

## **An Okapi Hypothesis: Survival of the Fittest Geometry in the Monist**

**Jemma Lorenat**

Pitzer College

### PRESENTER 4

## **Public Statistics: Making and Subverting Democracy**

**Theodore Porter**

University of California Los Angeles



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

### ORGANIZER

Edward Halley Barnet  
Stanford University

### CHAIR

Nima Bassiri  
Duke University

### PRESENTER 1

#### **David Hartley's Mental Acoustics: The Doctrine of Vibrations and the Beginnings of Associationist Psychology**

Edward Halley Barnet  
Stanford University

### PRESENTER 2

#### **Experimenting Between Brains, Nerves and Selves: Alfred Binet, Charles Féré, and the Form of the Neurological Case Study**

Zachary Levine  
Columbia University

### PRESENTER 3

#### **Mirrors, Twins, and the Developing Child: Capturing the Self through Glass and Film**

Katja Guenther  
Princeton University

### COMMENTATOR

Thomas Dodman  
Columbia University

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

### ORGANIZER

Kathryn Grace Maxson Jones

Princeton University; Marine Biological Laboratory

### CHAIR

Jane Maienschein

Arizona State University

### PRESENTER 1

## **Neuron Regeneration, Experimental Organisms, and the Curious Case of the Lamprey in 20th-Century Neurobiology**

Kathryn Grace Maxson Jones

Princeton University; Marine Biological Laboratory

### PRESENTER 2

## **The Historical Roots of a Flawed Assumption: How the History of Germline Research Reifies and Undermines the Human Genome Editing Debate**

Kate MacCord

Marine Biological Laboratory

### PRESENTER 3

## **A Bird's Eye View: Regeneration at the Ecosystem Level**

Frederick R. Davis

Purdue University

### COMMENTATOR

Jane Maienschein

Arizona State University

## **Science in the U.S. South**

### **PRESENTER 1**

#### **Southern Nationalists and the Early Smithsonian**

Michael Gunther  
Georgia Gwinnett College

### **PRESENTER 2**

#### **The Science of Southern Medicine: Disease Theory and the U.S. South**

Jeremy J. Montgomery  
Mississippi State University

### **PRESENTER 3**

#### **The Evolution of Physics Research and Graduate Education at Fisk University, 1910 - 1970**

Ronald Elbert Mickens  
Clark Atlanta University

### **PRESENTER 4**

#### **Scalawag Science: Northern Capitalists and Carpetbag Geologists in the Reconstruction of the South**

Paul Lucier  
Independent Scholar

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

### ORGANIZER

Abigail Fields  
Yale University

### CHAIR

JB Shank  
University of Minnesota

### PRESENTER 1

## **The Empire of Exactitude: Mathematical Physics and the Autonomization of Science under Napoleon**

Travis Wilds  
University of Minnesota Twin Cities

### PRESENTER 2

## **The Iconography of Science & Power in Early Modern France**

Katherine Reinhart  
Consortium for History of Science, Technology & Medicine

### PRESENTER 3

## **Taste or Method on Display. Debating Scientific Legitimacy through Natural History Collections in the Second Half of the 18th Century**

Rossella Baldi  
University of Neuchâtel and Swiss Institute for Art Research (Lausanne)

### PRESENTER 4

## **Modern Science: Situating the Royal Academy of Sciences within the Quarrel of the Ancients and the Moderns**

Abigail Fields  
Yale University

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

### ORGANIZER

**Christopher J. Phillips**  
Carnegie Mellon University

### CHAIR

**Christopher J. Phillips**  
Carnegie Mellon University

### PRESENTER 1

**Jenna Tonn**  
Boston College

### PRESENTER 2

**Michael D. Gordin**  
Princeton University

### PRESENTER 3

**Matthew H. Hersch**  
Harvard University

### PRESENTER 4

**Elly Truitt**  
Bryn Mawr

### PRESENTER 5

**Gisela Mateos**  
National Autonomous University of Mexico

### PRESENTER 6

**Whitney Laemmli**  
Carnegie Mellon University

## **Thinking with Poison: A Cross-Cultural Conversation**

### ORGANIZER

Yan Liu

State University of New York Buffalo

### CHAIR

Jeremy Greene

Johns Hopkins University

### PRESENTER 1

## **Toxicology in Antiquity: From the Forensic to the Epistemological**

Alain Touwaide

University of California Los Angeles

### PRESENTER 2

## **The Paradox of Du: Poisons and Medicines in Early China**

Yan Liu

State University of New York Buffalo

### PRESENTER 3

## **Powerful and Artful Substances: Poison and Panaceas in Sixteenth-Century Europe**

Alisha Rankin

Tufts University

### PRESENTER 4

## **Poisons, Parapsychology and Postcolonialism: Snake Venom and Psychic Statecraft in Cold War India**

Projit Bihari Mukharji

University of Pennsylvania

## **We, the (Spacefaring) People: Vernacular Participation in Space Science & Exploration**

### ORGANIZERS

Peter A. Kleeman

Space Age Museum

Emily A. Margolis

American Philosophical Society

### CHAIR

Michael Neufeld

Smithsonian National Air and Space Museum

### PRESENTER 1

## **Snapshots of the Space Age: Vernacular Images of Public Participation in Space Exploration**

Peter A. Kleeman

Space Age Museum

### PRESENTER 2

## **Houston Honors the Space Age: The National Space Hall of Fame, 1965-1969**

Emily A. Margolis

American Philosophical Society

### PRESENTER 3

## **Nostalgic Monument to Education Center: The History of Planetarium in Washington, D.C.**

Jieun Shin, Ph.D.

Smithsonian Institution Archives

### PRESENTER 4

## **Celebrating a Permanent Human Presence in Space**

Jennifer K. Levasseur

Smithsonian National Air and Space Museum

## **Climate, Planetary, and Nuclear Big Science**

### **PRESENTER 1**

#### **Climate Cycles, Historical Explanation, and Popular Science in Twentieth-Century Japan**

John Hayashi

Harvard University

### **PRESENTER 2**

#### **Climate Futures and the Problem in the U.S. Post-War Science-Policy Nexus**

Emil Flato

Research Project: "Lifetimes - A Natural History of the Present", Department of Culture Studies and Oriental Languages, University of Oslo

### **PRESENTER 3**

#### **Bringing It Back to Earth: Planetary Scientists and Their Responses to Federal Budget Cuts in the 1980s**

Ian Jasper Varga

Florida State University

### **PRESENTER 4**

#### **New Big Science in Belgium? - SCK CEN and the History of MYRRHA 1995-2020**

Hein Brookhuis

KU Leuven, Cultural History; SCK CEN, Nuclear Science and Technology Studies



## **Data Practices**

PRESENTER 1

### **Moral Accounting in the Eighteenth Century**

Andrea Rusnock  
University of Rhode Island

PRESENTER 2

### **Polling for Peace: Opinion Measurement and the Postwar International Order**

Tal Arbel  
Tel Aviv University

PRESENTER 3

### **The Formalization of Historical Time**

Matteo Valleriani  
Max Planck Institute for the History of Science, Berlin; Technische Universität Berlin, Tel Aviv University

PRESENTER 4

### **Bulwarks: Security Technologies and Societies in Transition**

Mohandas Schuyler Towne  
The Ronin Institute

## **Enlightenment Sciences and Rational Assertions of Otherness**

### ORGANIZER

David I. Spanagel

Worcester Polytechnic Institute

### CHAIR

Emily Pawley

Dickinson College

### PRESENTER 1

#### **Physiology Is Theology: Benjamin Vaughan (1751-1835) and Mr. Merrick's Hermaphrodite Cow**

Jose R. Torre

SUNY Brockport

### PRESENTER 2

#### **How to Think about Human Difference: Mathematical Geography, the “Use of the Globes,” and the Antipodes in the Early North American Spatial Imagination**

Tamara Plakins Thornton

SUNY Buffalo

### PRESENTER 3

#### **Technical Collaboration after the War: Applied Sciences and the Quest to Invent a Peaceful Mexico/U.S. Boundary in the 1850s**

David I. Spanagel

Worcester Polytechnic Institute

### COMMENTATOR

Emily Pawley

Dickinson College

## **Forgotten Figures in Recent Biology**

### **PRESENTER 1**

#### **Maclyn McCarty, the Transforming Principle & DNase: Clinching Evidence for DNA as the Material Basis of Genes**

Neeraja Sankaran

Independent Scholar

### **PRESENTER 2**

#### **Lost Disciplines, Lost Legacies: Irene Manton, Biologist of the Cold War**

Nicola Williams

Independent Scholar

### **PRESENTER 3**

#### **Scientific Creativity in Peripheral Locations: The Madras Triple Helix Model of G. N. Ramachandran**

Deepanwita Dasgupta

The University of Texas - El Paso

## **Histories of Evolutionary Thinking about Social Things**

### ORGANIZER

Cameron Brinitzer  
University of Pennsylvania

### CHAIR

Erika Milam  
Princeton University

### PRESENTER 1

#### **Pleasure Principle: Bonobos and the Sexual Revolution in Captivity**

Marianna Szczygielska  
Max Planck Institute for the History of Science, Berlin

### PRESENTER 2

#### **Governed by Affect: Nuclear Dread, Dual Process Theories, and the End of Cold War Cognition**

Michael Pettit  
York University

### PRESENTER 3

#### **Social Learning Mechanisms: The Evolution of Culture and Its Sciences**

Cameron Brinitzer  
University of Pennsylvania

### COMMENTATOR

Erika Milam  
Princeton University

## **Racial Bodies of Knowledge: Reformulations of Human Difference in Physical Anthropology**

### ORGANIZER

Paul Wolff Mitchell  
University of Pennsylvania

### CHAIR

Erik Peterson  
University of Alabama

### PRESENTER 1

## **Redacting Human Unity: A Newly Discovered Early Draft of Morton's *Crania Americana* (1839)**

Paul Wolff Mitchell  
University of Pennsylvania

### PRESENTER 2

## **Old Bones in New Databases: Pearson, Howells, and ForDisc**

Iris Clever  
University of Chicago

### PRESENTER 3

## **Medical Mastery: Teaching Physical Anthropology in the Antebellum Anatomical Theater**

Christopher Willoughby  
Pennsylvania State University

### COMMENTATOR

Terence Keel  
University of California Los Angeles

## **Scalar Thinking and Tinkering- Making Science Work across “Civilizations,” Empires, and the Globe**

### ORGANIZERS

Lucas Melvin Mueller

University of Geneva

Clare Kim

Washington University in St. Louis

### CHAIR

Lan Li

Rice University

### PRESENTER 1

## **The Sum of Its Parts: Surveying the Old Regime's Animal Healers in the Napoleonic Empire, 1812-1814**

Kit Heintzman

Harvard University

### PRESENTER 2

## **Marmite, Atta, and Insoluble Scales: Nutritional Deficiency Disease and Cross-Cultural Knowledge in the First World War**

Hilary Buxton

Institute of Historical Research/Kenyon College

### PRESENTER 3

## **The Tragedy of Progress: George Sarton's Classicism and the Work of Scaling Histories of Science**

Clare Kim

Washington University in St. Louis

### PRESENTER 4

## **Molecular Globe**

Lucas Melvin Mueller

University of Geneva

## **Switching Jobs**

### ORGANIZER

Morgan J. Robinson  
Mississippi State University

### CHAIR

Morgan J. Robinson  
University of Southern California

### PRESENTER 1

## **J. M. Gesner From Leipzig to Göttingen: A Philologist on the Move**

Christian Flow  
Mississippi State University

### PRESENTER 2

## **Africanizing Expertise in Virus Research**

Julia Cummiskey  
University of Tennessee Chattanooga

### PRESENTER 3

## **The Creativity of Clerkship**

Morgan J. Robinson  
Mississippi State University

### PRESENTER 4

## **Period Styles: From Classical to Medieval Studies in Early Modern Scholarship**

Frederic Clark  
University of Southern California

## **The Boundaries of Human Bodies in the Early Modern World**

### ORGANIZERS

Tawrin Baker

University of Notre Dame

Dániel Margócsy

University of Cambridge

### CHAIR

Maria Portuondo

Johns Hopkins University

### PRESENTER 1

## **Early Modern Images of the Eye and the Borders Between the Artificial, the Natural, and the Mathematical**

Tawrin Baker

University of Notre Dame

### PRESENTER 2

## **Monster Theory and the Problem of Giants**

Anita Guerrini

Oregon State University

### PRESENTER 3

## **Accounting for Bodies: Slave Trading and Medical Arithmetic in the Early Seventeenth-Century Iberian Atlantic**

Pablo F. Gómez

University of Wisconsin, Madison

### PRESENTER 4

## **Worms**

Dániel Margócsy

University of Cambridge