

# History of Science Society 2020

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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

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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-Āmilī'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**

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

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

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

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California State University, Long Beach

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

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

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

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## **The Chymistry of Drudgery**

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

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**Lissa Roberts**  
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## Flashtalks II

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#### **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

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#### **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

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

Batuhan Akgündüz

Ankara University

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

Tasha Schoenstein

Harvard University

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

Benedict Salazar Olgado

University of California, Irvine & University of the Philippines

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

Reese Fulgenzi  
University of Chicago

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

Hannah Elaine Pell  
Independent Scholar

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



## **Scientific Credibility**

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

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

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

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#### **Tides of Irrationality**

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

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

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

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

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**Laura Kasson Fiss**

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#### **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

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

Tori Reeder

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

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

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

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

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Virginia Polytechnic Institute and State University

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

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

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

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Huntington Library

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

Clément Godbarge  
Columbia University

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

Monique O'Connell  
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## **New Light on Science and Nazism**

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## **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

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## **Aryan Physics after Hitler**

**Ryan Dahn**

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

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## **Werner Heisenberg and National Socialism**

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

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

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

Alexandra L. Prince  
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#### **Science and the Counterculture: American Humanism, Religion, and Race**

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

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

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

Terrence R. Nathan

University of California, Davis

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

Debjani Dutta

University of Southern California

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## **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

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

Charlotte Coull  
The University of Manchester

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

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

Abena Dove Osseo-Asare  
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## **Visioneering Past and Future in Science Museums and Educational Technologies**

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

Elena Aronova

University of California, Santa Barbara

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## **Curatorial Visions of the Future**

Petrina Foti

Loughborough University

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

Morgan G. Ames

University of California, Berkeley School of Information

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## **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**

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Brandeis University

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

Patrícia Martins Marcos  
University of California San Diego

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

Sara Ray  
University of Pennsylvania

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

Elaine LaFay  
Rutgers State University

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

Ayah Nuriddin  
Johns Hopkins University

## **Histories of Botany and Medicine**

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

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

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