

Because of COVID-19, we are unable to meet in New Orleans in 2020. We are exploring options for virtual panels in October 2020. SHOT and HSS plan to meet jointly in New Orleans November 2021 [check www.historyoftechnology.org](http://www.historyoftechnology.org) for more information

## **PRELIMINARY PARALLEL SESSION SCHEDULE SHOT NEW ORLEANS 2020** **MEETING (JOINT SHOT-HSS SESSIONS INCLUDED)**

### **ORIGINAL SHOT NEW ORLEANS 2020 TIMESLOT**

**Friday, 9 October 2020**

**9:00 AM – 10:30 AM**

#### **F1: Technology and the Modern North American City**

Organizer: **David Hochfelder** (University at Albany, SUNY)

Chair: **Jonathan Coopersmith** (Texas A&M University)

Commentator: **Jonathan Coopersmith** (Texas A&M University)

**David Hochfelder** (University at Albany, SUNY): *Operation Breakthrough: An Experiment in Market-based Housing Construction*

**Douwe Schipper** (Johns Hopkins University): *"Government Is Not Created to Serve Experts": The Baltimore Highway Revolt as Resistance against a Technopolitical Regime*

**Daniel Konikoff** (University of Toronto): *ShotSpotter and Urban Space*

#### **F2: Infrastructure Megaprojects in Developing Countries: Environmental Effects and Transgression of Social Rights**

Organizer: **Baisakhi Bandyopadhyay** (The Asiatic Society Kolkata India)

Chair: **Somaditya (Soma) Banerjee** (Austin Peay State University USA)

Commentator: **Somaditya (Soma) Banerjee** (Austin Peay State University USA)

**Benedict Salzar Olago** (University of California, Irvine USA): *The Bataan Nuclear Power Plant: Imaginaries of Fear and Reason of State*

**Baisakhi Bandyopadhyay** (The Asiatic Society Kolkata India): *Construction of Sardar Sarovar Dam on Narmada River in India: environmental effects and transgression of social rights*

**Sk Maidul Rahaman** (Kazi Nazrul University, Asansol, West Bengal, India): *Coal mining and health Hazards: Megaproject Development or Health Malady in colonial Bengal.*

**Zhihui Zhang** (Institute for History of Natural Sciences, Chinese Academy of Sciences): *The Struggle among national prestige, the environment and social justice: Decision-making about the Three Gorges Project, 1919 to 1992*

#### **F3: Social Justice in the Twentieth Century Aviation Industry**

Organizer: **Caroline Johnson** (University of Texas at Austin)

Chair: **Michael Hankins** (Smithsonian National Air and Space Museum)

Commentator: **Chandra Bhimull** (Colby College)

**Marc Alsina** (Johns Hopkins University): *"En la Argentina, todos vuelan": Aviation and Progress in Juan Perón's 'New Argentina', 1943-1955"*

**Phil Tiemeyer** (Kansas State University): *Global Stewardesses in the Jet Age: Cosmopolitanism's Effects on Working Women*

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**Caroline Johnson** (University of Texas at Austin): *"On a Social Basis": The International Society of Women Airline Pilots, 1978-2001*

**Delali Kumavie** (Northwestern University): *Trapped in the Airport: Haunted Borders and Racialization in Abdulrazak Gurnah's By the Sea*

**F4: Sound and Color as Infrastructure: Electrifying the Built Environment in the Long 20th Century**

Organizer: **Lida Zeitlin Wu** (UC Berkeley)

Chair: **Lida Zeitlin Wu** (UC Berkeley)

Commentator: **Sandy Isenstadt** (University of Delaware)

**Carolyn L. Kane** (Ryerson University): *The Neon Surround: History, Theory, and Technique*

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

**Harry Burson** (UC Berkeley): *Producing Sonic Space: Telephony and the Emergence of Stereophonic Sound*

**F5: Fluid Infrastructures: Technology & Society in the North American Waterscape**

Organizer: **Gregory Hargreaves** (University of Delaware)

Chair: **Ann Greene** (University of Pennsylvania)

Commentator: **Martin Melosi** (University of Houston)

**Craig Colten** (Louisiana State University): *Rerouting Risk: New Orleans, the Mississippi River, & the Gulf of Mexico*

**Joshua Lewis** (Tulane University): *Green Infrastructure & Socioecological Contradiction in Louisiana*

**Robin McDowell** (Harvard University): *Biography of a Levee: The Life & Times of the Bonnet Carre Crevasse*

**Gregory Hargreaves** (University of Delaware): *Falling Water, Rising Profits: Economic Edge Effects & Fall Line Urbanization*

**F6: "Of Digital Computers Called Brains:" Rehistoricizing (Mis)conceptions of Machine Intelligence**

Organizer: **Théo Lepage-Richer** (Brown University)

Chair: **Benjamin Peters** (University of Tulsa)

**Ranjodh Sing Dhaliwal** (University of California, Davis): *Daemons @ Work: Conceptions of Labor in Intelligent Machines, from Babbage to Selfridge*

**Théo Lepage-Richer** (Brown University): *The Adversarial Brain: On Neural Networks and the Limits of Knowledge*

**Xiaochang Li** (Stanford University): *Between Likeness and Likelihood: Language, AI, and the Human-Computer Imagination*

**Diana Kurkovsky West** (Auburn University): *Calculating Brains and Brainless Computers: Inverting the Brain-Computer Analogy in Soviet Cybernetics*

**F7: Agency in the Network: Contextualizing Sustainability, Reconceptualizing the Grid**

Organizer: **Julie Cohn** (University of Houston)

Chair: **Erik Conway** (Jet Propulsion Laboratory, California Institute of Technology)

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**Julie Cohn** (University of Houston): *Large-scale Renewables and Local Gatekeepers: Moving Wind and Solar Power Across the Landscape*

**Matthew Eisler** (University of Strathclyde): *V2G, User Agency, and Grid Management in the Renewable Energy Era*

**Graeme Gooday** (University of Leeds): *Power Connections: Rethinking Agency and Teleology in Electrical Histories*

**Mónica Humeres Riquelme** (Alberto Hurtado University): *What Can the User's Trajectory Tell us About the Future? A Sociotechnical Analysis of Electrical Infrastructure Policies in Chile*

#### **F8: Comparative Futurisms**

Chair: **Patrick McCray** (University of California, Santa Barbara):

**Michael Laurentius** (York University): *A Glowing Garish Ghost Haunts: The Generative Role of Kitsch as Public Engagement*

**Ritaja Mukherjee** (Jadavpur University): *Adventures of Tintin: Colonial use of technology on Environment and Culture*

**Mario Bianchini** (Georgia Institute of Technology): *'Real Existing' Utopia: The Contours of Technological Utopianism in East Germany*

#### **F9: Doing Business in Socialist States**

Chair: **Asif Siddiqi** (Fordham University)

Commentator: **Hyungsub Choi** (Seoul National University of Science and Technology):

**Thomas Haigh** (U. of WI-Milwaukee & Siegen University): *Technology and Empire: IBM's Communist Collaboration*

**Alexander Magoun** (IEEE History Center): *A Scientist under Suspicion: Vladimir Zworykin, the FBI, and the Perception of Divided Loyalties*

**Benoît Berthelier** (University of Sydney): *North Korea's Cyberinfrastructure between Self-reliant Socialism and Global Capitalism.*

#### **JOINT SHOT-HSS SESSION**

##### **F10: Another Vast Machine I: Data, Models, and Simulations in Human Sciences**

Chair: **Tabea Cornel**

Commentator: **Emily Klancher Merchant**

**Rebecca Lemov**

**Hallam Stevens**

**Tabea Cornel**

**Christopher Phillips**

#### **JOINT SHOT-HSS SESSION**

##### **F11: Narratives of Seeds: Interrogating Disciplinary Boundaries between Histories of Science and Technology – 1 – Round Table**

*Round Table*

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Organizer: **Prakash Kumar** (Pennsylvania State University)

Organizer: **Helen Anne Curry** (University of Cambridge)

Chair: **Francesca Bray** (University of Edinburgh)

**Prakash Kumar** (Pennsylvania State University): *Hindi Literary Sphere and the Green "Revolution" in India*

**Aleksandar Shopov** (Max Planck Institute for the History of Science): *Sowing a City: Seeds in Ottoman Literature and Early Modern Istanbul*

**Helen Anne Curry** (University of Cambridge): *In Search of Native Seeds: Histories of Indigenous Agriculture and the Imagined Futures of Farming*

**Divya Sharma** (University of Sussex): *Rethinking the Green Revolution in India through subaltern ecologies*

#### **JOINT SHOT-HSS SESSION**

##### **F12: When History of Science and Technology Is Difficult History – Round Table**

Organizer: **Aimee Slaughter** (Los Alamos Historical Society)

Moderator: **Aimee Slaughter** (Los Alamos Historical Society)

**Lara Freidenfelds** (Independent Scholar): *The Myth of the Perfect Pregnancy*

**Johannes-Geert Hagmann** (Deutsches Museum, Munich): *Dealing with Complex Biographies: Disentangling Physics, Ideology and Self-Image in Philip Lenard's Papers and Artefacts*

**Katrina N. Jirik** (Independent Scholar): *Disability is Difficult History*

**Kara W. Swanson** (Northeastern University School of Law): *"Invention of a Slave": An Example from the Difficult History of Race, Technology, and Slavery*

**Stephanie E. Vasko** (Center for Interdisciplinarity, Michigan State University): *Exploring New Jersey's History of Science and Technology Through Design History and Artistic Practice*

**Alex Wellerstein** (Stevens Institute of Technology): *The Atomic Bombings as Past and Present: The Difficult History of Hiroshima and Nagasaki at 75*

#### **ORIGINAL SHOT NEW ORLEANS TIMESLOT**

**Friday, 9 October 2020**

**11:00 AM – 12:30 PM**

##### **F13: Ideologies of Urbanity: How Historical Modes of Thought Have Embodied the Built-Environment with Meaning**

Organizer: **Michael J. Corsi** (The Ohio State University)

Chair: **Robert Kronenburg** (University of Liverpool)

**Jacquelyne Thoni Howard** (Newcomb Institute of Tulane University): *"Useless Goods": Patriarchy, Tools, and Infrastructure in Early French New Orleans and its Borderlands*

**Michael J. Corsi** (The Ohio State University): *Sverdlovsk Transformed: Forging Urbanity in a Metropolis of Metal*

**David Zvi Kalman** (University of Pennsylvania): *Unintended Messages: The Telegraph, the Jewish Sabbath, and the Construction of Community*

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**Robert Kronenburg** (University of Liverpool): *The Role of Technology in Architecture*

**F14: Making and Modeling Wireless Waves: From Hertz to Andronov**

Organizer: **Alexei Kojevnikov** (University of British Columbia, Canada)

Chair: **Karl Hall** (Central European University, Hungary)

**Chen-Pang Yeang** (University of Toronto, Canada): *How to Make Sense of Heinrich Hertz's Claim of Discovering Electric Waves*

**Scott A. Walter** (Université de Nantes, France): *Solving the Triode: The Appleton-van der Pol Collaboration*

**Shaul Katzir** (Tel Aviv University, Izrael): *Dynamic Theories and Models in Developing Wireless-Related Devices*

**Climério Paulo da Silva Neto** (Federal University of Western Bahia, Brazil): *Nonlinear Feedback Loop: Radio-Engineering and Fundamental Science in the Soviet School of Oscillations*

**F15: Technologies of Survival: Exploration and Warfare in Extreme Environments**

Organizer: **James Esposito** (The Ohio State University)

Chair: **Jordan Bimm** (Princeton University)

**James Esposito** (The Ohio State University): *Engineering a Human Torpedo: Admiralty Experimental Diving Unit High Pressure Oxygen Research at the Siebe-Gorman Company 1942-1945*

**Caitlin Fendley** (Purdue University): *First Contact: The Apollo 11 Astronauts as Explorers, Field Workers, and Test Subjects*

**Matthew Wiseman** (Western University): *Defence Research Medical Laboratories: Operational Stress and Military Experiments in Cold War Toronto*

**Vanessa Heggie** (University of Birmingham): *Everyday Technologies of Survival: Belonging and Innovation in the Anthropocene*

**F16: Transnational Transfers of Technologies in the Late Soviet Era: Infrastructural Cooperation and the Question of Socialist Justice**

Organizer: **Andy Bruno** (Northern Illinois University)

Chair: **Andy Bruno** (Northern Illinois University)

Commentator: **Andy Bruno** (Northern Illinois University)

**Saara Matala** (Norwegian University of Science and Technology): *Infrastructure of Transnational Security and Welfare: The Finnish-Soviet Oil Trade, 1972-1992*

**Christine Evans** (University of Wisconsin - Milwaukee): *One Hour in Our World: Envisioning Satellite Communications across the Iron Curtain*

**Viktor Pál** (University of Helsinki): *Pour Me a Cold One: A Cold War History of Beverage Containers*

**F17: Petrocultural Shocks, Hazardous Infrastructures and the Sociotechnical Imaginary of Oil Preparedness**

Organizer: **Jens Millkrantz** (Chalmers University of Technology)

Chair: **Anna Åberg** (Chalmers University of Technology)

Commentator: **Per Högselius** (KTH Royal Institute of Technology)

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**Jens Millkrantz** (Chalmers University of Technology), **Anna Åberg** (Chalmers University of Technology), and **Susanna Lidstöm** (KTH Royal Institute of Technology): *Petrocultural Shock: 'Big Oil' Encounters the Emerging Swedish Welfare State, 1932-1947*

**Camilla Eriksson** (Swedish Defence Research Agency (FOI)) and **Jenny Ingemarsdotter** (Swedish Defence Research Agency (FOI)): *'Keeping the wheels turning': Oil preparedness schemes as a key defence strategy in Cold War Sweden*

**Christos Karamatsos** (National and Kapodistrian University of Athens), **Spyros Tzokas** (National and Kapodistrian University of Athens), and **Giorgos Velegrakis** (National and Kapodistrian University of Athens): *On Hazardous Infrastructure and "Geopolitical Numbers": Greek Gas Pipelines and Deposit Estimates from the Eastern Mediterranean to the Balkans, 1990-2020*

#### **F18: Anticipated Dangers**

Chair: **Scott Knowles** (Drexel University)

**Alicia Gutting** (KTH Royal Institute of Technology): *Risk Narratives Debating Drinking Water Supply from a Former Nuclear Research Centre. The Case of Eggenstein-Leopoldshafen's Wasserkonzept 2000*

**Zachary Loeb** (The University of Pennsylvania, History and Sociology of Science): *"The curse of the age" – Y2K and the computer as a threat to society*

**William Vogel** (University of Minnesota): **A Culture of Containment: Biological Warfare and Laboratory Safety in America's Cold War**

**Dana Burton** (George Washington University): *Accounting for the Encounter: the Politics of Proximity in NASA's Mars Sample Return Mission*

#### **F19: Managing Memories**

Chair: **Stephanie Dick** (University of Pennsylvania)

Commentator: **Stephanie Dick** (University of Pennsylvania):

**James Hay** (Institute of Communications Research/University of Illinois): *The Conjoined Governmentalities of Media Museums, the City Dump, & the "Green City"*

**Alex Reiss-Sorokin** (Massachusetts Institute of Technology): *From "Sheparding" a case to Shepardizing online: Legal Citation Indexes as Knowledge Infrastructures*

**Meg Leta Jones** (Georgetown University): *Solving the Web's Memory Problem: Cookies, User Identity, and Consumer Privacy*

#### **JOINT SHOT-HSS SESSION**

**F20: Faithful Representations: Observation, Mediation, and the Visual Reproduction of Nature**

Organizer: **Samantha Thompson** (Smithsonian Institution)

Chair: **Elizabeth Kessler** (Stanford University)

Commentator: **Elizabeth Kessler** (Stanford University)

**Katie Boyce-Jacino** (Arizona State University): *"So true to nature": Illusion and Immersion in the Early Planetarium*



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

Samantha Thompson (Smithsonian Institution): *Capturing the Northern Lights: The use of television cameras to measure and study aurora*

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

#### **JOINT SHOT-HSS SESSION**

##### **F21: Explaining Everything: Models, Machines, and Black Boxes in Histories of Science and Technology**

Organizer: **Lan Li** (Rice University)

Chair: **Elizabeth R. Petrick** (Rice University)

**Rodolfo John Alaniz** (University of Texas at Austin): *"Body Boxes: Sexual Inversion and the Embodiment of Sexual Selection"*

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

**B. Harun Küçük** (University of Pennsylvania): *From One Blackbox to Another: Universalism and Universality in the History of Science*

**Lan A. Li** (Rice University): *Battery Boxes: Cyborg Connections and Cesarean Sections in Colombo (1962-1985)*

#### **JOINT SHOT-HSS SESSION**

##### **F22: Another Vast Machine II: Data, Models, and Simulations in Human Sciences**

Michael Neuss ( ):

Emily Klancher Merchant ( ):

Elodie Grossi ( ):

Emanuele Ratti ( ):

#### **JOINT SHOT-HSS SESSION**

##### **F23: Narratives of Seeds: Interrogating Disciplinary Boundaries between Histories of Science and Technology - 2 – Round Table**

Organizers: **Prakash Kumar** (Pennsylvania State University) and **Helen Anne Curry** (University of Cambridge)

Chair: **Barbara Hahn** (Texas technical University)

**Yuan Yi** (Columbia University): *"Too Short to Spin": Cultivating American Cotton in Industrializing China*

**Courtney Fullilove** (Wesleyan University): *Community Seed Banks and the Apparatus of Food Sovereignty*

**Gabriela Soto Laveaga** (Harvard University): *"Rogue" Seeds in Mexican Fields*

**Sanjukta Ghosh** (School of Oriental and African Studies): *Seed Improvement and Elite Roles: Colonial India 1921-29*

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**Tiago Saraiva** (Drexel University): *Statistics and Emancipation from New Deal America to Guerrilla Warfare in Guinea-Bissau*

## **ORIGINAL SHOT NEW ORLEANS TIMESLOT**

**Friday, 9 October 2020**

**2:30 PM – 4:00 PM**

### **F24: Patents as Scientific Information: Four Translations**

Organizer: **Eva Hemmungs Wirtén** (Linköping University)

Chair: **Eva Hemmungs Wirtén** (Linköping University)

**Jose Bellido** (University of Kent): *Patents Translated: Microfilm as a Legal Technology*

**Mattis Karlsson** (Linköping University): *Distorted Dimensions in a Patent Document: A (mis)Translation of Earth*

**Isabelle Stromstedt** (Linköping University): *Translating an Institution: the Swedish Patent Office on Display*

**Johanna Dahlin** (Linköping University): *Translating the Inventor: Forced Labor as Intellectual Property*

### **F25: Restraining the Natural Flow of Water: Cost to Society**

Organizer: **Julie Mark Cohen** (Independent Scholar)

Chair: **Stephen Patnode** (Farmingdale State College)

Commentator: **Stephen Patnode** (Farmingdale State College)

**Diego Arango López** (Universidad Academia de Humanismo Cristiano ): *Fire and Waterworks. The Notion of Risk of Fire in Valparaíso, 1843-1903*

**John Baeten** (Indiana University): *A Century of Improvements, Run a Muck: The Army Corps and the Wabash River, 1820-1935*

**Jonah Bea-Taylor** (U.S. Army Corps of Engineers): *Twenty-first Century Decisions: How the Corps of Engineers Came to Use Risk-based Approaches to Dam and Levee Safety*

**Julie Mark Cohen** (Independent Scholar): *The Oroville Dam Spillway: Engineered, Managed, and Regulated to Failure*

### **F26: Colonial Subjects and Technopolitical Projects in Africa**

Organizer: **William Storey** (Millsaps College)

Chair: **Laura Twagira** (Wesleyan University)

**Damilola Adebayo** (University of Cambridge): *Electric Power Contestations in Colonial Lagos, 1890s-1945*

**Kairn Klieman** (University of Houston): *Gulf Oil and Its Discontents in Angola, 1960-1975*

**William Storey** (Millsaps College): *Story of an African Scapegoat: Freedom, Risk, and the DeBeers Mine Fire of 1888*



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#### **F27: Automation Past and Present – Round Table**

Organizer: **Jason Resnikoff** (Columbia University)

Chair: **Matthew Jones** (Columbia University)

**Aaron Benanav** (Humboldt Universität zu Berlin): *Automation and the Future of Work*

**Amy Bix** (Iowa State University): *Automation Past and Present*

**Louis Hyman** (Cornell University): *Automation, Temps, and Migrants in 1980s Silicon Valley*

**Jason Resnikoff** (Columbia University): *Automation is an Ideology*

#### **F28: Autarkic Environments**

Chair: **Bill Leslie** (Johns Hopkins University)

**Patrick McCray** (UCSB): *The Art of Survival: The Aesthetics of Appropriate Technology*

**David Munns** (City University of New York): *An Excremental History of the Space Age*

**David Burel** (Arizona State University): *Architectural Environments: Environmental and Technological Philosophies of the Built Environment in the American Southwest with Earthships and Biosphere 2*

#### **F29: To Build and Destroy: Military Aviation and Infrastructure: A Round Table Discussion – Round Table**

Organizer: **Michael Hankins** (Smithsonian National Air and Space Museum)

Chair: **Brian Laslie** (North American Aerospace Defense Command and United States Northern Command)

**Michael Hankins** (Smithsonian National Air and Space Museum)

**Luke Truxal** (Columbia State Community College)

**Heather Venable** (US Air Force Air Command and Staff College)

**Mary Elizabeth Walters** (Kansas State University)

#### **F30: Technological Fixes and Local Communities**

Chair: **Ramesh Subramanian** (Quinnipiac University and Yale Law School)

**Nathan Kapoor** (Grand Valley State University): *“Just Steam: Geothermal Energy and Indigenous Resource Reclamation in the Anthropocene”*

**Priyanka Guha Roy** (Kazi Nazrul University): *Megaprojects, Displacement and Eco-Protesting: Gendering Ecology, The case of the Sarder Sarovar Dam*

**Marianna Fenzi** (Laboratory for the History of Science and Technology, EPFL, Lausanne, Switzerland.): *Interconnected Cropscales, Agronomists and Varieties in the Global South.*

#### **JOINT SHOT-HSS SESSION**

#### **F31: Intellectual Property, National Security, and the Anglo-American Hegemonic Transition, 1914–1945**

Organizer: **Katherine Epstein** (Rutgers University-Camden)

Chair: **Margaret Graham** (McGill University, emeritus)

Commentator: **Margaret Graham** (McGill University, emeritus)

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

**Michael Falcone** (Dartmouth College): *The Politics of Erasure: Memory, Technology, and Institutions in Second World War-era Anglo-American Diplomacy*

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

#### **JOINT SHOT-HSS SESSION**

##### **F32: In Memoriam of Aaron Stephen Moore: Infrastructure in East Asia**

Organizer: **Juyoung Lee** (Johns Hopkins University)

Chair: **John DiMoia** (Seoul National University)

**Yuting Dong** (Harvard University): *Building Roads in Colonial Manchuria (1905-45)*

**Joseph Seeley** (University of Virginia): *Engineering the Korean War "Crossing of the Yalu"*

**Juyoung Lee** (Johns Hopkins University): *Corporate Consultants and Chemical Fertilizer Plants in Postwar East Asia*

**Seohyun Park** (Virginia Tech): *Technological Intervention in Rural Life: The Soyang Multi-purpose Dam Construction in Postcolonial Korea*

#### **JOINT SHOT-HSS SESSION**

##### **F33: Laser Focus: Planning, Modeling, and Implementing Interferometry to Illuminate the Science-Technology-Policy Interface**

Organizer: **Connemara Doran**

Chair: **Theresa Levitt**

Commentator: **David Keiser**

**Connemara Doran**

**Tiffany Nichols**

**Daniel Kennefick**

#### **JOINT SHOT-HSS SESSION**

##### **F34: The Meanings of Things: How Disability Reframes Histories of Knowledge and Its Artifacts – Round Table**

Organizer: **Jessica Martucci** (Science History Institute) and **Hemachandran Kahra** (Indian Institute of Technology Madras)

Chair: **Amy Slaton** (Drexel University)

**Nicole Belolan** (Rutgers University-Camden)

**Pallavi Podapati** (Princeton University)

**Ashley Shew** (Virginia Tech)

**Jaipreet Virdi** (University of Delaware)

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## **ORIGINAL SHOT NEW ORLEANS TIMESLOT**

**Friday, 9 October 2020**

**4:30 PM – 6:00 PM**

### **F35: Earth Orbiting Satellites and the Making of Environment**

Organizer: **Gemma Cirac-Claveras** (Universitat Pompeu Fabra)

Chair: **Etienne Benson** (University of Pennsylvania)

**Gemma Cirac-Claveras** (Universitat Pompeu Fabra): *Satellite remote sensing in France. From natural resources to the global environment.*

**Johan Gärdebo** (KTH Royal Institute of Technology): *Sustaining the Digital Baltic Sea: Swedish Satellite Remote Sensing and Databases for the Baltic States in the post-Cold War era*

**James Schwoch** (Northwestern University): *Earth-Orbiting Satellites and the Making of the Environment. Radio Spectrum Auctions, Earth-Exploration Satellite Service, and 24GHz*

**Ramesh Subramanian** (Quinnipiac University and Yale Law School): *Satellites, Computers, and Monsoons: History and politics of weather monitoring in India*

### **F36: Risky Technologies and Technologies of Risk**

Organizer: **Stefan Esselborn** (Technical University Munich)

Chair: **Karin Zachmann** (Technical University Munich)

**Elijah Huges** (Wesleyan University): *Egress*

**Siegfried Evens** (KTH Royal Institute of Technology): *Nuclear Risks, Old and New. Governing Water, Steam and Nuclear Safety*

**Stefan Esselborn** (Technical University Munich): *'Project Risk Strategy'. Nuclear Energy and the Emergence of Risk Research in West Germany*

### **F37: Cable Empires: Superimposing U.S. Intelligence Cable Infrastructure on the British Submarine Telegraph Cable**

Organizer: **Kristie Macrakis** (Georgia Tech)

Chair: **Stephanie Grey** (Louisiana State University)

**Gloria Calhoun** (Georgia Tech): *"Indigenous Knowledge and Imperial Industry: Origins of Submarine Telegraph Cables"*

**Kristie Macrakis** (Georgia Tech): *"Passing the Global Espionage Torch: British and US Cable Collaboration at the National Security Agency"*

**Clare Barbour** (Georgia Tech): *"Mapping Snowden's Files: GIS Evidence of Technological Colonialism and the 'Persistence' Feature of Infrastructure"*

### **F38: Soil, Science and Society in Imperial Japan and Korea**

Organizer: **Paul Kreitman** (Columbia University)

Chair: **Lisa Onaga** (Max Planck Institute for the History of Science, Berlin)

Commentator: **Lisa Onaga** (Max Planck Institute for the History of Science, Berlin)

**Paul Kreitman** (Columbia University): *The Social Life of the Macronutrient in Meiji Japan*

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**Hiromi Mizuno** (University of Minnesota): *Modernizing Dirt: Soil Science in Meiji Japan*

**Holly Stephens** (University of Edinburgh): *Science as the Measure of Empire: O Söngsön and the Creation of a 'Model' Farm in Colonial Korea*

#### **F39: Atlantic Crossings**

Chair: **Laura Twagira** (Wesleyan University)

**Liat Spiro** (College of the Holy Cross): *Power Conveyance: Afterlives of Géométrie Descriptive and Mechanic Republicanism in the Atlantic World, 1815-1848*

**Handy Acosta** Cuellar (Tulane University): *Keeping the Furnace Alive: African Slaves and Subaltern Metalworking Technologies in Early Modern Cuba*

**Marta Macedo** (Institute of Social Sciences, University of Lisbon): *Coffee on the move: technology, labor and race in the making of a transatlantic plantation system*

#### **F40: Overcoming Water**

Chair: **Susanne Moon** (University of Oklahoma)

**Urna Mukherjee** (Johns Hopkins University): *"Stagnant pools and low 'jungle'": Uncertain Geographies and Urban Development in 19th Century Colonial Bombay*

**You Wang** (University of California, Los Angeles): *A Good Dike: Scholarly Discussion and Farmers' Construction in Water Management of Late Imperial China (1600-1850)*

**Paul Lucier** (Independent Scholar): *The Dead Work of Mining: Reckoning with Infrastructure and Innovation on the Comstock Lode*

**Elliott Sturtevant** (Columbia University): *Streaming Empire: Wired Landscapes, Aerial Commodities, and Entrepôt Urbanism in Hawaii*

#### **F41: Photography as Infrastructure**

Chair: **Joris Mercelis** (Johns Hopkins University)

**Nora Draper** (University of New Hampshire): *Surveillance in an Instant. Polaroid's ID-2 System and the Commercial Politics of Risk*

**Elizabeth Patton** (University of Maryland, Baltimore County): *Documenting New Orleans' Built Environment: The Role of the Photographic Archive in Constructing the Postcard City*

**Hugo Pereira** (CIUHCT - Interuniversity Research Centre for the History of Science and Technology): *Heralds of progress: photography and infrastructures in Portugal and its colonies (c. 1850 – c. 1900)*

#### **F42: Automating a New Political Economy**

Chair: **Lee Vinsel** (Virginia Tech)

**Daniel Cardoso Llach** (Carnegie Mellon University): *City as Software: Designing the "Civil-industrial Complex" at Carnegie-Tech, 1969-1975*

**Jeffrey Nagle** (University of Pennsylvania): *"This Is Not the Future, This is the '70s": Systems Sciences, Personal Infrastructure, and the Cybernetic City in Morgantown, West Virginia*

**Theodora Vardoulis** (McGill University): *Failure Cards, Problem Structures, and Architecture as Computation ca. 1960*

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**Salem Elzway** (University of Michigan): *Arms of the State: A Political-Economic Infrastructure of Really Existing Robots*

#### **JOINT SHOT-HSS SESSION**

#### **F43: Breakdown of the Productive Self: Work Sciences and Industrial Affect in the Twentieth Century**

Organizer: **Sam Schirvar** (University of Pennsylvania)

Chair: **Jennifer Alexander** (University of Minnesota)

Commentator: **Jennifer Alexander** (University of Minnesota)

**Jiemin Tina Wei** (Harvard University): *Ameliorating Worker Fatigue through the Body's Motions and Pauses: Frank and Lillian Gilbreth's 'Motion Studies,' 1910-1924*

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

**Sam Schirvar** (University of Pennsylvania): *HOWL! Human Factors Research on the Stressed and Strained Mind at Work during the 1970s*

#### **JOINT SHOT-HSS SESSION**

#### **F44: Waste, Resource, Residue: Chemical Histories**

Organizer: **Evan Hepler-Smith** (Duke University)

Chair: **Gabriela Soto Laveaga** (Harvard University)

**N. J. Dharan** (University of Pennsylvania): *Gilbert J. Fowler (1868-1953), Energetic Holisms, and the Empire of Nitrogen in India*

**Evan Hepler-Smith** (Duke University): *Toxaphene: A Chemical History*

**Laura Martin** (Williams College): *Chemical Plants and Plants That Are Chemical*

**Kwame Otu** (University of Virginia): *E-Waste as Archive: Unsettling Technological Humanitarianism in Neoliberal Ghana*

#### **JOINT SHOT-HSS SESSION**

#### **F45: Animals in/as Technologies**

Organizer: **Rachel Ankeny** (University of Adelaide)

Chair: **Miguel Garcia-Sancho** (University of Edinburgh)

**Brad Bolman** (Harvard University): *The Dog in the Machine: Beagles, Computers, and Drugs*

**Gina Surita** (Princeton University): *Cycles of Carbohydrates, Collaboration, and Experimentation in 1920s Biochemical Physiology*

**Christine Keiner** (Rochester Institute of Technology): *Oyster Reefs as Evolving Technologies of Coastal Resilience*

**Rachel Ankeny** (University of Adelaide): *From Biomimicry to Bioinspiration: Changing Approaches to Studying and Using Natural Silk in Australia*

#### **JOINT SHOT-HSS SESSION**

#### **F46: Medical Algorithms: Computing, Diagnosis, and Health in the United States Organizer:**

**Gerardo Con Diaz** (University of California, Davis)

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Chair: **Mary Mitchell** (Purdue University)

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

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

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

**Hannah Zeavin** (University of California, Berkeley): *Auto-Intimacy: Algorithmic Therapies*

## **ORIGINAL SHOT NEW ORLEANS 2020 TIMESLOT**

**Saturday, 10 October 2020**

**9:00 AM – 10:30 AM**

### **S1: Cold War Geopolitical Infrastructures**

Organizer: **Lisa Ruth Rand** (Science History Institute)

Chair: **Yeonsil Kang** (Drexel University)

Commentator: **Yeonsil Kang** (Drexel University)

**Selika Ducksworth-Lawton** (University of Wisconsin-Eau Claire): *No Road to Die on: The Twenty Fourth Infantry Regimental Combat Team's Response to Urban and Rural Infrastructure in the First Forty Days of the Korean Conflict*

**Rohini Patel** (University of Toronto): *Toxic Regimes: Agent Orange, Chemical Networks, and Pollution in Ontario, 1960s-1990s*

**Lisa Ruth Rand** (Science History Institute): *Maintaining American Hegemony: The Rise and Fall of Reusable Satellite Infrastructure, 1967-1987*

### **S2: Historicizing Artificial Intelligence (AI): Across Environments; As Infrastructure; Through Justice**

Organizer: **Colin Garvey** (Stanford University)

Chair: **Colin Garvey** (Stanford University)

Commentator: **Paul Edwards** (Stanford University)

**Ariane Hanemaayer** (University of Cambridge): *"Don't touch my stuff": Resistance to AI in Medical Environments*

**Konstantinos Sakalis** (National and Kapodistrian University of Athens), **Konstantinos Konstantis** (National and Kapodistrian University of Athens), and **Aristotle Tympanos** (National and Kapodistrian University of Athens) :: *Artificial Intelligence, "the most revolutionary technology for green energy": "Artificial Lines" as "Phantom Circuits"*

**Nu Wang** (Virginia Tech): *"Black Box Justice": Robot Judges in China's Court System*

**Colin Garvey** (Stanford University): *Averting AI Doomsday: The Legacy of Computer Professionals for Social Responsibility*



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### **S3: Cutting Both Ways: Technology, the New, and Unintended Consequences in the American South**

Organizer: **Jonathan Shafer** (National Park Service)

Chair: **Cari Casteel** (University of Buffalo)

Commentator: **Jonathan Shafer** (National Park Service)

**Matthew Sparacio** (Southeastern Oklahoma State University): *The Choctaw Civil War Reconsidered: Environment, Infrastructure, and Justice on the Southern Frontier*

**John Davis** (Ohio State University): *Toward a Continental Diagram: Infrastructure and Military Geometry in the Reconstruction U.S. South*

**Christopher Bishop** (Jacksonville State University): *Vessels of Salvation: The Adoption of Technical and Aesthetic Standards in Southern Methodist Architecture*

**John Mohr** (University of Alabama - Huntsville): *Smooth Moves: Vehicle Design and the Rhetoric of Progress in the New South*

### **S4: From Preservation to Publication: A Digital Humanities Workshop**

Organizer: **Jason Guthrie** (Clayton State University)

Chair: **Jason Guthrie** (Clayton State University)

**Jason Guthrie** (Clayton State University)

**Joseph Makkos** (Louisiana State University)

**Elvira Carrizal-Dukes** (The University of Texas at El Paso)

**Will Mari** (Louisiana State University)

**Corinna Schlombs** (Rochester Institute of Technology): *Historical Data Management and Communication: A Companion Website as a Teaching and Research Tool*

### **S5: Beyond the Boundary: Reflections on the Past, Present, and Future of Envirotech – Round Table**

Organizer: **Etienne Benson** (University of Pennsylvania)

Chair: **John Baeten** (Indiana University)

**Etienne Benson** (University of Pennsylvania)

**Johan Gärdebo** (KTH)

**Ann Norton Greene** (University of Pennsylvania)

**Aleksandra Kobiljski** (EHESSaThe School for Advanced Studies in the Social Sciences (EHESS))

**Sara B. Pritchard** (Cornell University)

### **S6: Engineering Ethics Pedagogy Organizer: Brit Shields (University of Pennsylvania) – Round Table**

Chair: **Ron Kline** (Cornell University)

**Brit Shields** (University of Pennsylvania): *Ethics in Context: Expanding Ethics within the Engineering Curriculum*

**Atsushi Akera** (Rensselaer Polytechnic Institute): *STS and Design as an Alternative to Traditional Ethics Case Studies*

**Margarita Boenig-Liptsin** (University of California, Berkeley): *Human Contexts and Ethics in and of the Datafied World*

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Jennifer Alexander (University of Minnesota): *Engineering ethics and public service preparation at the University of Minnesota*

#### **S7: Managing Bodies**

Chair: **Joanna Radin** (Yale University)

**Stephen Horrocks** (Purdue University): *Tinkering with Normalcy: Richard K. Bernstein and the History of At-Home Blood Glucose Testing*

**Michelle Spektor** (MIT): *Database of the Potential Dead: The Israeli Military's Collection of Soldiers' Biometric Data*

**Youngju Lee** (Darmstadt University of Technology): *Bodily Technologies and Menstrual Management in South Korea, 1970–1980s*

**Emily Gann** (Ingenium - Canada's Museums of Science and Innovation): *Priority Seating: Strollers and Wheelchairs on-board Public Transit in Ottawa from 1940 to 2010*

#### **JOINT SHOT-HSS SESSION**

##### **S8: 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)

Commentator: **Zuoyue Wang** (California State Polytechnic University)

**John DiMoia** (Seoul National University): *Cheju as Contested Model: Parasitology, Public Health, and Nation-Building in Post-Colonial South Korea, mid-1960s*

**Christine Luk** (Tsinghua University): *Constructing coastal biological stations in 20th century China: Tsingtao and Hong Kong*

**Subodhana Wijeyeratne** (Harvard University): *Between the Rocket and the Deep Blue Sea: Space Exploration and the "Fishing Problem" in Southern Japan, 1950-1980*

#### **JOINT SHOT-HSS SESSION**

##### **S9: "From 'Hell with the Lid Off' to Laboratory for Academic-Industry Research: Pittsburgh and its Research Universities, 1907-1950"**

Organizer: **David Hounshell** (Carnegie Mellon University)

Commentator: **Anna Guagnini** (Bodleian Library, Oxford University)

**Mark Samber** (Carnegie Mellon University): *"Fellowships, Philanthropy, and Profit: How the Mellon Institute Fulfilled a Vision for Industrial Research, Academic Science, Public Benefit & Private Enterprise, 1907-1921"*

**David Hounshell** (Carnegie Mellon University): *"Robert Kennedy Duncan's Fraternity of Fellows: The Origins of Sponsored Industrial Research at Kansas and its Triumph in Pittsburgh, 1907-1915"*

**Thomas Lassman** (Historical Office, Office of the [US] Secretary of Defense): *"Science in the Steel City: Metallurgy at the Carnegie Institute of Technology, 1923-1940"*

#### **JOINT SHOT-HSS SESSION**

##### **S10: Expertise and Exercise**

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Organizer: **Hongwei Thorn Chen** (Tulane University) and **Katherine Contess** (Brown University)  
Chair: **Scott Kushner** (University of Rhode Island)

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

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

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

**Melanie Waitas** (Independent Scholar): *"Exercise Teaches You the Pleasure of Discipline": Between Female Self-Empowerment and Self-Submission in 1980s Aerobics Videos*

#### JOINT SHOT-HSS SESSION

##### **S11: Vital Signs: Grids, Galvanisms, and the Sociopolitics of Electricity**

Organizer: **Samantha Wesner** (Cornell University)

Chair: **Michael Degani** (Johns Hopkins University)

**Iwan Morus** (Aberystwyth University): *Men of the Future May Become as Gods: Tesla's Wireless Electricity and the Dream of Infinite Energy*

**Elizabeth Chatterjee** (Queen Mary University of London): *Beyond electric despotism: the myth of the grid in postcolonial India*

**Fredrik Meiton** (University of New Hampshire): *Electrical Palestine: Technocapitalism & the Arab-Israeli Conflict*

**Samantha Wesner** (Cornell University): *"Great Shock of Civic Electricity": Electrical Vitalism and Collective Sentiment in the French Revolution*

#### ORIGINAL SHOT NEW ORLEANS 2020 TIMESLOT

**Saturday, 10 October 2020**

**11:00 AM – 12:30 PM**

##### **S12: Aviation in the Public Imagination**

Organizer: **Peter Eveleigh** (University of Manchester)

Chair: **Deborah Douglas** (MIT Museum)

Commentator: **Alan Meyer** (Auburn University)

**Roger Connor** (George Mason University): *From Backyard to Battlefield: The Transformation of the American Autogiro*

**Peter Hobbins** (University of Sydney): *Airframes and afterlives: the affective artefacts of aviation accidents*

**Peter Eveleigh** (University of Manchester): *"Aeroplanes For Everyone Soon". The search for the Ideal Light Aeroplane*

**Thomas Kelsey** (King's College London): *More Than Just Noise: the opposition to Concorde in Britain, 1962-1974*

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### **S13: Chill Technologies: Environmental Infrastructures of Cold**

Organizer: **Betsy Frederick-Rothwell** (The University of Texas at Austin) and **Jesse Ritner** (The University of Texas at Austin)

Chair: **Sarah M. Pickman** (Yale University)

**Yeonsil Kang** (Drexel University): *Cold War's Cold Legacy: Soyanggang Dam, Local Environment, and the Envirotechnical Development in South Korea*

**Jesse Ritner** (The University of Texas at Austin): *Nuking the Slopes: How the Ski Industry Used the Cold to Overcome the Weather*

**Jason L. Newton** (Cornell University): *The Winter Workscape: Weather and the Meaning of Industrial Capitalism in the Northern Forest, 1850-1950*

**Betsy Frederick-Rothwell** (The University of Texas at Austin): *An Inclination to Work: Cooling Bodies and Building Technologies, 1895-1930*

### **S14: Crowd Control: Animals, Architecture, and Audiences**

Organizer: **Scott Kushner** (University of Rhode Island)

Chair: **Helga Tawil-Souri** (New York University)

**Jesse Smith** (Science History Institute): *Passenger Capacity, Passenger Experience*

**Neil Humphrey** (The Ohio State University): *On a Short Leash: Technologizing Canine Control in Victorian Britain*

**Timothy Burnside** (Florida State University): *Caging the Breachy Animal: Barbed Wire Fences and the Viscera of Modernity*

**Scott Kushner** (University of Rhode Island): *Rationalized Audiences*

### **S15: Road Infrastructure and the Transformation of Landscapes, Nations and States in 20th Century Latin America**

Organizer: **Alexis De Greiff** (Universidad Nacional de Colombia)

Chair: **Gisela Mateos** (Universidad Nacional Autónoma de México)

**Rodrigo Booth** (Universidad de Chile): *Technology and Nature: Environmental Ethics and Aesthetics in the Automobile's Conquest of the Chilean Landscape in the Early 20th Century*

**Vânia Da Silva** (Sao Paulo State Archives): *'Caminho do mar' transformation: from the elite's automobile road to a ecotourism place*

**Michael Bess** (Centro de Investigación y Docencia Económicas (México)): *'To cross the capital in only ten minutes': Mexico City and the End of a 'Golden Age' of Urban Highway Building, 1946-1966*

**Alexis De Greiff** (Universidad Nacional de Colombia): *Transforming the landscapes of war: the role of the Colombian Army Corps of Engineers in the construction of road infrastructure during the national internal armed conflict*

### **S16: Historicizing Engineering Ethics (Sponsored by Prometheans)**

Organizer: **Ryan Hearty** (Johns Hopkins University)

Chair: **Julie Mark Cohen** (Independent Science and Technology Studies Scholar)

Commentator: **Atsushi Akera** (Rensselaer Polytechnic Institute)

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**Sarah Nelson** (Vanderbilt University): *Engineering Consent: the Stanford Research Institute and Ethics of Research Contracting in the Age of Satellite Development and Decolonization, 1960-1969*

**Ryan Hearty** (Johns Hopkins University): *Environmental Ethics and Engineering Education in the US, 1970-1996*

**Timothy Schultz** (United States Naval War College): *Technical and Ethical Aspects of Remote Warfare*

**Megan Finn** (University of Washington): *Towards a history of “tech” industry activism*

### **S17: Technology and Labor in the Office**

Chair: **Yulia Frumer** (Johns Hopkins University)

**James Inglis** (University of St Andrews): *Typewriters and female entrepreneurs in Scotland, 1880s to 1920s*

**Sean Gilleran** (University of California Santa Barbara): *“PARC is Back!”: Ubiquitous Computing, Xerox PARC, and the Future of Work*

**Alexander Russo** (The Catholic University of America): *Programming Via Punch Card: Stuart Dodd, IBM, and The Cybernetic Origins of Radio Formats*

### **S18: Cultural Representations of Technology**

Chair: **Ben Gross** (Linda Hall Library)

**Paul Yandle** (North Greenville University): *“She Had Never Been Farther South Than New York”: The Nationalization of Racist Regional Mythologies in the Southern Railway’s Travel Promotions, 1894-1911*

**Sarah Bell** (Michigan Technological University): *How to Marry a UNIVAC: Early Television Comedy and the Domestication of Thinking Machines*

**Logan Blizzard** (University of Pittsburgh): *When Does a Newsletter Become a Magazine?: The Boom (and Bust) of 1980’s Computer Magazines*

### **JOINT SHOT-HSS SESSION**

#### **S19: Death in the Time of Cholera: Bureaucracy, the State and Contested Communications in Nineteenth-Century Spain and the Ottoman Empire**

Organizer: **Alex Schweig** (University of Arizona)

Chair: **Alex Schweig** (University of Arizona)

**Isacar Bolaños** (California State University, Long Beach): *Disease and the State in Late Ottoman Iraq, 1821-1899*

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

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

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#### **JOINT SHOT-HSS SESSION**

##### **S20: The Future of Digital Humanities in the History of Science and Technology – Round Table**

Organizer: **Kathleen Sheppard** (Missouri S&T)

Chair: **Stephen Weldon** (University of Oklahoma)

Commentator: Stephen Weldon (University of Oklahoma)

**Sarah Naramore** (The University of the South (Sewanee)): *Digital Humanities and Collaborative Projects*

**Andreas Weber** (University of Twente): *Digital Humanities and the Future of Natural History*

**Abraham Gibson** (University of Texas at San Antonio): *The Future of Deepfakes in the History of Technology*

**James Fleming** (Colby College): *Digital Projects in History*

**Jerome Baudry** (EPFL): *Building the Digital Library 'Savoirs'*

**Alex Weaver** (Independent Scholar): *Deep Learning for the Digital Humanist*

**Laurynas Adomaitis** (Scuola Normale Superiore (SNS)): *Geo-Referencing Early Modern Science: A Narrative Approach*

**Molly Stothert-Maurer** (Arizona State Museum) and **Lisa Duncan** (University of Arizona Libraries):  
Contribution Title: The Future of Born-Digital Materials in Special Collections

#### **JOINT SHOT-HSS SESSION**

##### **S21: Making and Doing History: On Non-Traditional Modes of Critical Engagement – Round Table**

Organizer: **Crystal Lee** (MIT) and **Ranjodh Singh Dhaliwal** (UC Davis)

Chair: **Ranjodh Singh Dhaliwal** (UC Davis) and **Crystal Lee** (MIT)

**Laine Nooney** (NYU)

**Mar Hicks** (Illinois Institute of Technology)

**Bess Williamson** (Art Institute of Chicago)

**Whitney Pow** (Northwestern/NYU)

**Xiaochang Li** (Stanford University)

#### **JOINT SHOT-HSS SESSION**

##### **S22: Integrated Courses: Benefits, Challenges, and Successes – Round Table**

Organizer: **Gregory Macklem** (University of Notre Dame)

Chair: **Gregory Macklem** (University of Notre Dame)

Organizer: **Anna Geltzer** (University of Notre Dame)

**David Dennis** (Dean College)

**Jessica Pisano** (Dean College)

**R.A. Lawson** (Dean College)

**Eleanor Louson** (Michigan State University)

**Eunjeong Ma** (POSTECH (Republic of Korea))

**Erik Peterson** (University of Alabama)



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## **ORIGINAL SHOT NEW ORLEANS 2020 TIMESLOT**

**Saturday, 10 October 2020**

**3:30 PM – 4:00 PM**

### **S23: Gam(bl)ing on Computers**

Chair: **Joe November** (University of South Carolina):

**Florencia Pierri** (The College of New Jersey): *Toys that Teach: Computer Games in 1960s America*

**Elizabeth Badger** (University of Minnesota Twin Cities): *"And There Is No Other Market:" How Market Research Narrowed Video Game Culture*

**Chris Rasmussen** (Fairleigh Dickinson University): *"You can't beat 'em:" Gambling machines and governments in the Machine Age*

### **S24: Makers, Users, and Regulators: Social Histories of Hearing Aid Technology**

Organizer: **Frank Mondelli** (Stanford University)

Chair: **Frank Mondelli** (Stanford University)

Commentator: **Bess Williamson** (School of the Art Institute of Chicago)

**Frank Mondelli** (Stanford University): *Feed/back: How the Hearing Aid Molded a Transnational Regime of Sound in Postwar Japan*

**Jaipreet Virdi** (University of Delaware): *Tinkering with Hearing Aids: Maintenance, Self-Repair, and Disability Agency*

**Sarah Rose** (University of Texas at Arlington): *"Why won't they get hearing aids?" Insurance, Age, Disability, and Medical Technology*

### **S25: Timing the History of Technology and Environment**

Organizer: **Erik Isberg** (KTH Royal Institute of Technology )

Chair: **Leonoor Zuiderveen Borgesius** (University of Oslo )

**Erik Isberg** (KTH Royal Institute of Technology ): *Timing an Anthropocene ocean: Temporality and environmental knowledge in the Deep Sea Drilling Project 1968-1983*

**Leonoor Zuiderveen Borgesius** (University of Oslo ): *Railroad to El Dorado - temporalities of infrastructure in colonial Surinam, 1860-1905*

**Stine Alling Jacobsen** (University of Oslo ): *Vertical time: geocolonial technologies of cryolite extraction in Greenland between 1850 and 1950*

### **S26: Infrastructures of Urbanization. Toward an Envirotechnical Analysis of Circulation and Disconnection in the City**

Organizer: **Felix Mauch** (Technical University Munich) and **Jan Hansen** (Humboldt University of Berlin):

Chair: **Ann Greene** (University of Pennsylvania)

**Felix Mauch** (Technical University Munich): *Artificial Grounds. Land as Logistical Infrastructure in Colonial Singapore, 1850s–1940s*

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**Jan Hansen** (Humboldt University of Berlin): *Governing Disaster. Street Gutters, Urban Fragmentation, and the Making of 'Modern' Los Angeles, 1910s–1930s*

**Rachel Leibowitz** (SUNY College of Environmental Science and Forestry): *No Park, No Plant. The Battle over Chicago's Central District Water Filtration Plant*

**Katrin Heilmann** (King's College London): *From Air-raid Shelters to Mushroom Farms. The Economic Transformation of Shanghai's Underground*

#### **S27: Crowd Control: Masses and Flows**

Organizer: **Scott Kushner** (University of Rhode Island)

Chair: **Scott Kushner** (University of Rhode Island)

**Omer Shah** (Columbia University): *Managing Mecca's Millions*

**Helga Tawil-Souri** (New York University): *Through the Turnstile*

**Stefan Höhne** (Kulturwissenschaftliches Institut Essen): *"Apparatuses of Separation": Turnstiles, Crowd Control and the Emergence of Self-Service around 1910*

**Xiaoyue Li** (University of Michigan): *Crowd, Line and Dot: The Management of Railway Porters in Colonial Egypt, 1882-1922*

#### **S28: Science, Technology, Innovation, and Sports I**

Organizer: **Eric Hintz** (Smithsonian Institution)

Chair: **Arthur Daemmrich** (Smithsonian Institution)

**Matt Ventresca** (University of Calgary): *Ice Buckets: Constructing Sociotechnical Histories of Hockey Helmets*

**Robert Kronenburg** (University of Liverpool): **Human-Machine Rapport in Sport: Gliding and Soaring**

**Meg Maher** (Smithsonian Institution): *The Speedo LZR: How the World's "Most Technically Advanced Swimsuit" Came to be Seen as "Technological Doping"*

**Eric Hintz** (Smithsonian Institution): *Moneyball: The Computational Turn in Professional Sports Management*

#### **S29: Spatial Experiments and Imperial Experts in the Middle East and North Africa**

Organizer: **Austin Cooper** (University of Pennsylvania)

Chair: **Jennifer Derr** (University of California, Santa Cruz)

**Seçil Binboğa** (University of Michigan): *"A Layman's History of Modern Heavy Construction": Globalization of American Settler-Colonial Engineering Expertise*

**Austin Cooper** (University of Pennsylvania): *U.S. Assistance for Measuring Fallout from Saharan Testing and the Production of National Space in 1960s Tunisia*

**Zachary Cuyler** (New York University): *The Highway and "La Lutte Douanière": Automobility, Fiscality, and the Making of Lebanon as an Economic Space*

**Daniel Williford** (University of Wisconsin-Madison): *Laboratories for the Local: Public Works of Experimentation in the French Empire*

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### **S30: Infrastructures and the Technologies of Everyday Life in the Making of Modern East Asia – Round Table**

Organizer: **Max Hirsh** (University of Hong Kong)

Chair: **Max Hirsh** (University of Hong Kong)

**Hallam Stevens** (Nanyang Technological University): *Television and the Digital Aspirations of the Infrastructural State*

**Tae-Ho Kim** (National Chonbuk University): *Food, Self-esteem, and Technology: The (Re)invention of the Kimchi Refrigerator in South Korea*

**Dorothy Tang** (Massachusetts Institute of Technology): *Hong Kong's Water Emergencies: The Infrastructure of Post-War Water Supply and Everyday Water Consumption*

**Izumi Nakayama** (University of Hong Kong): *Taken with a Grain of Salt: Theories and Technologies of Lower Sodium Soy Sauce in Modern Japan*

**Max Hirsh** (University of Hong Kong): *Technical Experts and the Production of Airport Infrastructure in China*

### **JOINT SHOT-HSS SESSION**

#### **S31: Animal, Vegetable, Mineral: Material Tools for Archiving Time**

Organizer: **Alexis Rider** (University of Pennsylvania)

Chair: **Joanna Radin** (Yale University)

Commentator: **Joanna Radin** (Yale University)

**Spencer Weinreich** (Princeton University): *On Colony Time: Thinking Decay and Renewal with Dermestid Beetles*

**Melissa Charenko** (Michigan State University): *Proxy Perceptions of Climate and Time*

**Alexis Rider** (University of Pennsylvania): *On Blue Ice: Antarctic Meteorites and Deepening Planetary Time*

### **JOINT SHOT-HSS SESSION**

#### **S32: Animating Technoscience: Imagination, Production, and Representation**

Organizer: **Michael Meindl** (Radford University) and Matthew **Wisnioski** (Virginia Tech)

Chair: **Hanna Rose Shell** (University of Colorado)

**Colin Williamson** (Rutgers University): *Animating Biology and the Biology of Animation: The Technoscience of Disney's Fantasia*

**Alana Staiti** (Smithsonian National Museum of American History): *Motion, Emotion, and the Human in the Computer: Motion Models and Computerized Bodily Form, 1971-1981*

**Michael and Meindl and Matthew Wisnioski** (Redford University and Virginia Tech): *"Take Chances! Make Mistakes! Get Messy!": The Magic School Bus and the Reanimation of Science Education in the 1990s*

**Rebecca A. Perry** (Smithsonian National Air and Space Museum): *Virtual Film Production: Surfing the Database, Democratizing Technology?*

### **JOINT SHOT-HSS SESSION**

#### **S33: Cybernetic Entanglements: The Human, Environment and Second-Order Cybernetics**

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Organizer: **Angelica Clayton** (Yale University)

Chair: **Carolyn Kane** (Ryerson University)

Commentator: **Benjamin Breen** (University of California Santa Cruz)

**Angelica Clayton** (Yale University): *Diagnosing the Embodied Mind: Schizophrenia and Gregory Bateson's 'Ecology of Mind'*

**Caitlin Kossmann** (Yale University): *Tinkering with Gaia: Engineering and Evolution in the Earth System*

**Jeffrey Mathias** (Cornell University): *'My Eyes Make Pictures When They Are Shut': John C. Lilly and the Echo of Observation*

**Jeff Nagy** (Stanford University): *Touching Emotions at Rockland State Hospital: Manfred Clynes and the Datafication of Feeling, 1956-1972*

#### **JOINT SHOT-HSS SESSION**

**S34: Actors' Categories: Language, Power, and Historical Analysis**

**Mary Mitchell**

**Henry Cowles**

**Laura Star**

**Isable Gabel**

**Lucas Rieppel**

#### **ORIGINAL SHOT NEW ORLEANS 2020 TIMESLOT**

**Saturday, 10 October 2020**

**4:30 PM – 6:00 PM**

**S35: Science, Technology, Innovation, and Sports II**

Organizer: **Eric Hintz** (Smithsonian Institution)

Chair: **Eric Hintz** (Smithsonian Institution)

**Tolga Ozyurtcu** (University of Texas at Austin): *Waves of Innovation: Surfing, Technology, and Nature*

**Katrin Boniface** (University of California, Riverside): *Trotting Time: Advances in Horsepower*

**Tyler King** (University of Toronto): *Contact Sports to Contact with the Law: The History of CTE and the Emergence of a Legal Defence*

**Arthur Daemrich** (Smithsonian Institution): *Stadium Technologies and the Consumption of Sport*

**S36: The Importance of Military Infrastructure: Temporary, Permanent, and In-Between**

Organizer: **Laurence Burke** (National Air and Space Museum)

Chair: **Lee Vinsel** (Virginia Tech)

Commentator: **Angela Riotto** (Army University Press)

**Jack Grobe** (University at Albany, SUNY): *Before Paperclip: The American Campaign to Steal German Military Technology, 1919-23*

**Frank Blazich** (National Museum of American History): *Bridging the Gap: Invention, Innovation, and the Naval Landing Pontoon at Normandy*

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**Laurence Burke** (National Air and Space Museum): *A Floating City: The Aircraft Carrier as Mobile Infrastructure*

**Eric Perinovic** (Temple University): *Practicality Outstripped by Ambition: West German Military-Aviation Infrastructure*

### **S37: Environments, Infrastructures, and Social Justice in Postcolonial Africa**

Organizer: **Tasha Rijke-Epstein** (Vanderbilt University)

Chair: **Stephan Miescher** (University of California, Santa Barbara)

**Stephan Miescher** (University of California, Santa Barbara): *Ghana's Inland Water Highways: Infrastructure and Challenges of Volta Lake Transport*

**Tasha Rijke-Epstein** (Vanderbilt University): *Engineered Omby (cattle): Technoscience, Animate Nationhood, and Socialist Madagascar*

**Joshua Grace** (University of South Carolina): *Cars After African Socialism: History, Sustainability, and Mobility in an East African City*

**Jethron Ayumbah Akallah** (TU Darmstadt): *From Flying Toilets to Flying Water Pipes: Re-imagining Infrastructure Development in Kibera Informal Settlement, Nairobi*

### **S38: Writing Institutional Histories: The Johns Hopkins University Department of Physics and Astronomy, 1876-2020**

Organizer: **Christine Wenc** (Independent / Greenwood History LLC)

Chair: **Christine Wenc** (Independent / Greenwood History LLC)

Commentator: **Bill Leslie** (Johns Hopkins University)

**Joanna Behrman** (Johns Hopkins University): *Methods and approaches to history-for-hire: Spectroscopy and the Hopkins Physics Department, 1876-1930s*

**Dan Volmar** (Independent Scholar): *Methods and approaches to history-for-hire: The Hopkins physics department in WWII and the Cold War*

**Christine Wenc** (Independent Scholar / Greenwood History LLC): *Methods and approaches to history-for-hire: Technicians in the Hopkins Physics and Astronomy Dept, 1876-present*

### **S39: Animal Materialities**

Organizer: **Lisa Onaga** (Max Planck Institute for the History of Science) and **Laurence Douny** (Humboldt University)

Chair: **Evan Hepler-Smith** (Duke University)

**Sarah Lowengard** (The Cooper Union): *Waste Not: Animal Fats, Animal Chemistry and Soap Amid Changing Industrial Practices 1750-1860*

**Sarah Teasley** (Royal College of Art): *When Is A Solution A Problem? Animal Glues In Laboratories And Workshops In Twentieth-Century Japan'*

**Laurence Douny** (Humboldt University): *Degumming West African wild silks in the 20th and 21st century Burkina Faso.*

**Lisa Onaga** (Max Planck Institute for the History of Science): *Biomaterial Matters: A History of Interstitial Things*

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#### **S40: Conversations on Technology from Latin America, Asia, and Africa – Round Table**

Organizer: **Laura Twagira** (Wesleyan University)

Chair: **Prakash Kumar** (Pennsylvania State University)

**Laura Twagira** (Wesleyan University): *Clay Jars, Vaccinations, and Techno-Body Politics in Early Twentieth Century Mali (West Africa)*

**Fabian Prieto-Nunez** (Virginia Tech): *All technology is waste. Recycling as a method for historicizing technologies*

**Yovanna Pineda** (University of Central Florida): *Aesthetics of Invention: Interpretations of Local Community's History of Technology as Development in Argentina, Twentieth Century*

**Ying Jia Tan** (Wesleyan University): *The Cost of Energy Transition: Perspectives from the electrification of wartime China*

**Fa-ti Fan** (State University of New York at Binghamton): *Thinking through Thick and Thin: Concepts and Categories in Thinking about Technology in "Other" Regions*

**Michael Bivona** (Georgia Institute of Technology): *Blowback: Kareem Khan and the Emerging Shape of Justice, Under Drones*

#### **S41: Boundary-Spanning in Late Cold War Computing**

Chair: **Cyrus Mody** (Maastricht University)

**Susannah Glickman** (Columbia University): *The Construction of Quantum Histories and Futures*

**Julia Ravanis** (Chalmers University of Technology): *Blurring the binary: civilian and military tensions in Swedish Cold War Computing*

**Andrew McGee** (Carnegie Mellon University): *"The Electronic Origins of the Neoliberal Order: Data Processing and Telecommunications Systems as Elements of Debates over U.S. Political Economy, 1970-1990"*

#### **JOINT SHOT-HSS SESSION**

#### **S42: Visioneering Past and Future in Science Museums and Educational Technologies**

Organizer: **Elizabeth Petrick** (Rice University)

Chair: **Patrick McCray** (University of California, Santa Barbara)

**Elena Aronova** (University of California, Santa Barbara): *The Revolutionary Avant-Gard? Imagineering Scientific Modernity in Moscow Museum of Biology in the 1920s*

**Petrina Foti** (Loughborough University): *Curatorial Visions of the Future*

**Morgan Ames** (University of California, Berkeley): *Throwback Culture: The Role of Nostalgia in American Educational Technology*

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

#### **JOINT SHOT-HSS SESSION**

#### **S43: Navigating the Profession with Chronic Illness or Invisible Disabilities – Round Table**

Organizer: **Allison Marsh** (University of South Carolina)

Chair: **Allison Marsh** (University of South Carolina)



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**Laura Smith** (University of Arkansas)

**Jillian Hinderliter** (University of South Carolina)

**Caroline Peyton** (University of Memphis)

**Allen Driggers** (Tennessee Technological University)

#### **JOINT SHOT-HSS SESSION**

##### **S44: Histories of Data and the Data of History – Round Table**

Organizer: **Joy Lisi Rankin** (New York University, AI Now Institute)

Chair: **David Singerman** (University of Virginia)

**Theodora Dryer** (New York University, AI Now Institute): *"Data at work" in the Era of Designing Certainty*

**Megan Formato** (Stanford University): *Beyond Invisible Technicians: Women and Writing in Early Quantum Theory*

**Leah Gordon** (Brandeis University): *"Subordinating...multifaceted realities to the constraints of the methods": Data on Inequality in the Great Society and post-Great Society Eras*

**Michal McGovern** (Princeton University): *Critical Race Data: Engaging the Long History of Statistics and Civil Rights*

**Samantha Muka** (Stevens Institute of Technology): *Maintaining trust: Introducing doubt without losing subjects*

**Joy Lisi Rankin** (New York University, AI Now Institute): *Debating Data: Risky Research and Challenges to Historical Expertise*

**Kathleen Sheppard** (Missouri S&T): *The Many Loves of Amelia Edwards: Same-Sex Creative Couples in Egyptology*