



## Preliminary Program ICOHTEC – SHOT 2024

(Version 13 April 2024)

### Draft Schedule of Events and Activities ICOHTEC-SHOT 2024

#### MONDAY 8 JULY 2024

<i>Time</i>	<i>Event</i>
Entire day	ICOHTEC Winter School (Santiago de Chile)

#### TUESDAY 9 JULY 2024

<i>Time</i>	<i>Event</i>
9.00 AM - Noon	ICOHTEC Winter School (Santiago de Chile)
9.00 AM – 4.00 PM	Tours
12.30 AM – 4.30 PM	SHOT Executive Council Meeting
5.30 PM – 7.00 PM	Plenary opening
7.00 PM – 9.00 PM	Opening reception

#### WEDNESDAY 10 JULY 2024

<i>Time</i>	<i>Event</i>
9.00 AM – 11.00 AM	ICOHTEC Executive Committee Meeting
9.00 AM – 12.30 PM	SHOT Grad Student Workshop I
9.00 AM – 10.30 AM	Session Block
10.30 AM – 11.00 AM	Coffee break
11.00 AM – 12.30 PM	Session Block
12.30 PM – 2.30 PM	Lunch break
12.30 PM – 2.30 PM	Lunch meetings - Plenary Presidential Adress SHOT- president Gabrielle Hecht
12.30 PM – 2.30 PM	General Assembly ICOHTEC
2.30 AM – 6.00 PM	SHOT Grad Student Workshop II
2.30 PM – 4.00 PM	Session Block
4.00 PM – 4.30 PM	Coffee break
4.30 PM – 6.00 PM	Session Block

#### THURSDAY 11 JULY 2024

<i>Time</i>	<i>Event</i>
7.00 AM – 8.30 AM	Breakfast meetings (optional)
9.00 AM – 10.30 AM	Session Block
10.30 AM – 11.00 AM	Coffee break

11.00 AM – 12.30 PM	Session Block
12.30 PM – 2.30 PM	Lunch break
12.30 PM – 2.30 PM	SHOT First timers lunch/officers meet students
12.30 PM – 2.30 PM	Lunch meetings - Plenary ICOHTEC Kranzberg Lecture
2.30 PM – 4.00 PM	Session Block
4.00 PM – 4.30 PM	Coffee break
4.30 PM – 6.00 PM	Session Block
6.15 PM – 7.45 PM	SHOT Community Meeting
8.00 PM – 11.30 PM	Student mixer

#### FRIDAY 12 JULY 2024

Time	Event
7.00 AM – 8.30 AM	Breakfast meetings (optional)
9.00 AM – 10.30 AM	Session Block
10.30 AM – 11.00 AM	Coffee break
11.00 AM – 12.30 PM	Session Block
12.30 PM – 2.30 PM	Lunch break
12.30 PM – 2.30 PM	Lunch meetings - Keynote lecture - Special Interest Groups
2.30 PM – 4.00 PM	Session Block
4.00 PM – 4.30 PM	Coffee break
4.30 PM – 6.00 PM	Session Block
7.00 PM – 11.30 PM	Dinner/Jazz night/Party

#### SATURDAY 13 JULY 2024

Time	Event
7.00 AM – 8.30 AM	Breakfast meetings (optional)
9.00 AM – 10.30 AM	Session Block
10.30 AM – 11.00 AM	Coffee break
11.00 AM – 12.30 PM	Session Block
12.30 PM – 2.30 PM	Lunch break
12.30 PM – 2.30 PM	Lunch meetings - Keynote lecture - Special Interest Groups
2.30 PM – 4.00 PM	Session Block
4.00 PM – 4.30 PM	Coffee break
6.15 pm – 8.15 PM	Joint Awards Event/reception

#### SUNDAY 14 JULY 2024

<i>Time</i>	<i>Event</i>
9.00 AM – 5.00 PM	SIGCIS Sunday conference
9.00 AM – Noon	Special Interest Group workshops

## Session Overview ICOHTEC-SHOT 2024

Please note:

- Information on (hybrid) meeting rooms, Special Interest Groups meetings, plenary lectures etc. not included yet.
- SHOT Robinson Prize Candidates are indicated. This indication is preliminary as we are still checking whether all candidates meet the eligibility criteria.

The program will be updated regularly. Please email updates and corrections to the SHOT secretariat ([shot.secretariat@tue.nl](mailto:shot.secretariat@tue.nl))

### Tuesday 9 July 2024 – 5:30PM-9:00PM

**Plenary Opening**  
**Opening Reception**

### Wednesday 10 July 2024 - 9:00AM-10:30AM

#### **Technologies of Transformation**

Organizer: **Mar Hicks** (University of Virginia)

Chair: **Jack Giesecking** (City Institute, York University)

#### *Presenters*

**Aparna Nair** (University of Toronto-Scarborough): Sunglasses as Technologies of Empire

**Mar Hicks** (University of Virginia): Computing, Race, and Professionalization: The First Mainframe at an HBCU

**Nikki Stevens** (MIT): Parallel Logics of Separation: Data Modeling and Mass Incarceration – *SHOT ROBINSON PRIZE CANDIDATE*

**Varsha Venkatasubramanian** (University of California, Berkeley): The Post-Colonial State, Hydrocracy, and the Environment

#### **Cybernetics and AI: Entangled and Global Histories of Knowing and Engineering Complexity**

Organizer: **Ksenia Tatarchenko** (Singapore Management University)

Chair: **Egle Rindzeviciute** (Kingston University London)

#### *Presenters*

**Ronald Kline** (Cornell University): Cybernetics and the History of Artificial Intelligence

**Ksenia Tatarchenko** (Singapore Management University): The Omniscient Machine: A Global Spectacle of the Computerized Deciphering

**Egle Rindzeviciute** (Kingston University London): The Cybernetic Sensibility: Hopes and Failures in Governing Complexity through Scientific Prediction Across the Iron Curtain

**Ekaterina Babintseva** (Purdue University): A High-Fidelity Model of Human Thinking: Artificial Intelligence in the Soviet Union

#### **Using, repairing and learning in the periphery: for a history of maintenance in Latin America (Session I)**

Organizer: **Guillermo Guajardo** (Universidad Nacional Autónoma de México)

Chair: **David Edgerton** (King's College London)

**Guillermo Guajardo** (UNAM): Circulation of Goods, Repairs and Technical Learning in Latin America (Chile and Mexico), ca. 1850-1930.

**Nicolas Richard** (CNRS, Institut Français d'Études Andines): Mytho-Mechanics and Energy Transition: The Conversion to Natural Gas of Old Vehicles in La Paz, Bolivia

**Marlene Barba** (Instituto Cultural de Aguascalientes-Universidad Autónoma de Aguascalientes): Reparación y mantenimiento en el sistema ferroviario en Aguascalientes, México: aprendizaje a través del diálogo entre la experiencia y la capacitación formal.

**Manuel E. Contreras** (Academia Boliviana de Historia): La aflicción de la revisión, mantenimiento y reparación en la Empresa Nacional de Ferrocarriles de Bolivia, 1965-1995

### **The Aerospace Sublime: The Intersection of Engineering, Design, and Maintenance**

Organizer: **Jennifer Levasseur** (Smithsonian National Air and Space Museum)

Chair: **Jennifer Levasseur** (Smithsonian National Air and Space Museum)

#### *Presenters*

**Michael Hankins** (Smithsonian National Air and Space Museum): “This Crap Will Never Get Off the Ground”: How Stealth Aircraft Challenged and Redefined the American Aerospace Sublime

**Jennifer Levasseur** (Smithsonian National Air and Space Museum): MacGuyvers in Orbit: The Sublime Designs of Hacked Solutions to Space Challenges

**Savannah Mandel** (Virginia Tech): The Fall of The Asteroid Miners: A History of Space Prospectors and the Legacy they Leave Behind

### **Imagination is power: remapping sociotechnical imaginaries in modern East Asia**

Organizer: **Zhongxian Xiao** (School of History and Sociology, Georgia Institute of Technology)

Chair: **Kate McDonald** (Department of History, University of California, Santa Barbara)

#### *Presenters*

**Xianglong Zhu** (Department of History and Philosophy of Science, University of Cambridge): Examining Body, Inspecting Society: Social Justice and Radiological Technology in Modern China

**Meng Zhang** (Centre for the History of Science, Technology and Medicine, University of Manchester): Resisting State Medicine: Barbers and Anti-Masking Movement in 1930s China

**Yize Hu** (Department of History of Science and Technology, Johns Hopkins University): Resilient Technocracy: The Systems Approach to an “Information Society” in Japan Circa 1970

**Zhongxian Xiao** (School of History and Sociology, Georgia Institute of Technology): Conceiving “Chinese Speed”: Contested Sociotechnical Imaginaries of High-Speed Rail in Post-1978 China

### **Between use and source – repairing industrial heritage**

Organizer: **Michael Hascher** (Landesamt für Denkmalpflege im Regierungspräsidium Stuttgart)

Chair: Marion Steiner (TICCIH Secretary General, ESPI Lab Valparaíso)

#### *Presenters*

**Maria da Luz Sampaio** (University of Évora, Department of History): Repairing and reusing technical and industrial objects of the production chain and in everyday life: The case of sewing machine and vinyl record player

**Aude Monié** (University of Neuchâtel): Bringing repaired clothes back to life? How historians contribute to knowledge of restored artefacts in museums

**Michael Hascher** (Landesamt für Denkmalpflege im Regierungspräsidium Stuttgart): Upgrade! Better use for better preservation (of fragments)

**Emily Whitted** (University of Massachusetts Amherst): Darning Stockings, Patching Trousers: Textile Mending Technologies in Early America

## Wednesday 10 July 2024 - 11:00AM-12:30PM

### **Crafting Energyscapes: From Optimism to Failure** (optional Hybrid session)

Chair: **Paul Edwards** (Stanford University/University of Michigan)

#### *Presenters*

**Nelson Arellano** (Universidad Academia de Humanismo Cristiano): The place of solar energy in XIXth century technologies, sustainability and the Anthropocene turn: uses and discards (1870-1930)

**Alexei Kojevnikov** (University of British Columbia) and **Climério Paulo da Silva Neto** (Federal University of Bahia): Technological Restoration, Revolution and Decolonization: GOELRO and “The Origin of Electricity”

**Fernando Williams** (CONICET / Universidad Nacional de La Plata (Argentina)): Repairing the soil of extra-Andean Patagonia: environmental liabilities of large hydroelectric dams and their landscape implications

**Sonja Schmid** (Department of STS, Virginia Tech): Preparedness, Response, and the Politics of Anticipation

### **Towards new technological counterpoints: Users, Makers, Lenses & Narratives**

Chair: TBA

#### *Presenters*

**Marwa Koheji** (New York University Abu Dhabi): A Traveling Technology: The Story of Air-conditioning in Bahrain (*pre-recorded presentation*)

**Damilola Adebayo** (York University, Toronto, Canada): Akinlawon Ladipo Mabogunje and the Making of the Kainji Hydroelectric Dam, 1965-1973

**Maria Paula Diogo** (NOVA School of Science and Technology): Center and Periphery as historiographical tools. The art of the fugue

**Ana Simões** (NOVA School of Science and Technology): Co-author: Center and Periphery as historiographical tools. The art of the fugue

**Luqing Zhou** (Peking University): Inscription as Repair: Discursive Maintenance of a Transnational Hydropower Station

### **Pushing the boundaries of heritage: Actors & Spaces**

Chair: TBA

#### *Presenters*

**Benard Busaka** (Maseno University): Repair and Maintenance: Critical Technological Practices in Conservation and Preservation of Immovable Cultural Heritage at Gedi Historical Site, Kenya

**Roine Viklund** (Luleå University of Technology): Mining Legacies - Resource or burden?

**Dag Avango** (Luleå University of Technology): Co-Author: Mining Legacies

**Ronald Duran Allimant** (Universidad de Playa Ancha): Reparación y patrimonio cultural inmaterial: el caso de los organilleros chilenos

### **Exclusion and marginalized actors**

Chair: TBA

#### *Presenters*

**Deyanira Cauanal** (Universidad Autónoma Metropolitana-Cuajimalpa): Healing with air: the circulation of iron lungs in polio outbreaks in México (1950-1965)

**Jose G. Alvarez-Cornett** (Independent Scholar/VES PROJECT): Always Present Yet Unseen: Digitally Uncovering the Ukrainian Contributions to Science, Technology, and Culture in Venezuela – *SHOT ROBINSON PRIZE CANDIDATE*

**David Zimmerman** (University of Victoria): Refugee Scientists and Engineers in South and Latin America, 1933-1945

**Matthew Wisnioski** (Virginia Tech): Empower Everything: A History of the Idea that Diversity Drives Innovation

### **Tele-Networks**

Chair: TBA

#### *Presenters*

**Walter Nkwi** (University of Leiden): Shaping Technology for Livelihoods: Cell Phone Repairers in Buea, Cameroon

**Nnamdi Nnake** (McMaster University): Recovering Lost Signals from the Telegraph Networks of Colonial Nigeria

**Zeynep Ecem Pulas** (Max Planck Institute for the History of Science Berlin): Maintaining the Hejaz Telegraph Line, One Wire at a Time: Ottoman Expertise, Political Discontent and Territoriality

### **Natural Resources and Exploitation**

Chair: Anna Åberg (Chalmers University of Technology)

#### *Presenters*

**Sylvía Marsibil Bates** (University of Iceland): Inventors, not inventions: trawl door patents at the turn of the 20th century

**Constanza Marin** (Universidad Católica Del Norte): La transformación en la ocupación del suelo rural y modo de vida en torno a la agricultura – *SHOT ROBINSON PRIZE CANDIDATE*

**Lorena Campuzano Duque** (Adjunct Professor at the Universidad Andrés Bello): Artisanal and Small-Scale Mining (ASM) and Mining State Formation: A Matter of Technology and Scale?

**Nashely Yuvitza Lizarme Villcas** (Centro de Historia UNI - Universidad Nacional de Ingeniería): ¿Tecnócratas o burocratas? Los ingenieros civiles y de minas en el desarrollo de un Estado moderno a la peruana entre 1900 y 1920

## **Wednesday 10 July 2024 - 12:30PM-2:30PM**

Lunch break (no lunch provided, but Campus restaurant is open to all participants)

### **Lunch session:**

#### **Presidential Address: Carbon Omissions**

Participants:

**Gabrielle Hecht** (Stanford University)

**Cristobal Bonelli** (University of Amsterdam)

**Damir Galaz-Mandakovic** (Universidad Católica del Norte)

**Valentina Figueroa** (Universidad Católica del Norte)

**Jaime Landinez Aceros** (Stanford University)

**Marina Weinberg** (Universidad Católica del Norte)

## **Wednesday 10 July 2024 - 2:30PM-4:00PM**

### **Politics and Strategies of Repair in Ghana's Volta River Project**

Organizer: **Stephan F. Miescher** (University of California, Santa Barbara)

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

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

#### *Presenters*

**Stephan F. Miescher** (University of California, Santa Barbara): Ghana's Volta Lake: Infrastructures and the Politics of Repair

**Kwabena Agyare Yeboah** (University of California, Santa Barbara): Institutional Complex, Ecologies, and Scientific Knowledge of the Volta River – *SHOT ROBINSON PRIZE CANDIDATE*

**R. Lane Clark** (Independent Filmmaker, LaLa Productions): "It's up to us": Woes of Lake Woman

### **Bodies Everywhere: Different Forms of Embodiment in the History of Computing**

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

Chair: **Xiaochang Li** (Stanford University)

#### *Presenters*

**Elizabeth Petrick** (Rice University): Imagined Bodies Using Imagined Computers at Xerox PARC

**Sara Simon** (Illinois Institute of Technology): Reengineering Death Registration: The Technology Behind Born-Digital Mortality Statistics

**Frank Dittmann** (Deutsches Museum): From Chessboard to Soccer Field – or the Role of Embodiment in Robotics

**Andrew McGee** (Smithsonian Institution, National Air and Space Museum): Imagined Bodies, Single and Grouped: Mass Aggregation of Embodied Individuals as Non-Embodied Data Points in 1960s and 1970s Debates Over Computerized Public Policy

### **Rethinking repair (studies)**

Organizer: **Stefan Krebs** (Luxembourg Centre for Contemporary and Digital History)

Chair: **Andreas Fickers** (Luxembourg Centre for Contemporary and Digital History)

#### *Presenters*

**Stefan Krebs** (Luxembourg Centre for Contemporary and Digital History): Questioning the decline narrative of (consumer) repair

**Lee Vinsel** (Virginia Tech): Putting the study of maintenance and repair into the world of O&M

**Heike Weber** (Technical University Berlin): Following technology through time: Repair, reuse, and removal

**Florian Hertweck** (University of Luxembourg): From sustainable architecture to urban repair

### **A Tradition to Repair. About the history of Building Conservation Technologies**

Organizer: **Roman Hillmann** (German Mining-Museum/University of Stuttgart)

Chair: **Roman Hillmann** (German Mining-Museum/University of Stuttgart)

#### *Presenters*

**Peter I. Schneider** (History department of BTU Cottbus): (Co-Authored) From Schinkel to Shared Knowledge: Trajectories of Dealing with Fabric, Meanings and People

**Amy Lamb Woods** (Professional Engineer): Understanding historic construction and technical advancements in building materials for resilient heritage conservation and preservation

**Miles Oglethorpe** (President of TICCIH): The Forth Bridge – conservation technologies for an engineering icon and a UNESCO World Heritage Site

### **Geoingeniería glaciar antes y después del cambio climático**

Organizer: **José Ragas** (Instituto de Historia | Universidad Católica de Chile)  
Chair: **Cristián Simonetti** (Pontificia Universidad Católica de Chile)  
Commentator: **Javiera Barandiarán** (UC Santa Barbara)

*Presenters*

**Lucía Moreno Caballero** (ANTAR ANDES): Uso de trazadores isotópicos (tritio y radón) para el estudio del impacto del cambio climático en glaciares andinos: el caso del Yana Ucsa (Perú, 2023)  
**Jorge Mujica-Urzúa** (Pontificia Universidad Católica de Chile / Universidad Bernardo O'Higgins): La "Capital de los Glaciares Patagónicos": dimensiones histórico-espaciales de los glaciares en Villa O'Higgins durante las primeras décadas del siglo XXI  
**José Ragas** (Pontificia Universidad Católica de Chile): El Glaciar San Rafael y el mercado global de hielo (siglo XIX)  
**Cedomir Marangunic** (Geoestudios, Chile): Acumulación artificial con valla de nieve para la formación de glaciares en Chile central (2010-2011)

**(Inter)regional perspectives on artefact repair, materiality and embodied knowledge**

Organizer: **Madhu Narayanan** (IIT Madras)  
Chair: **Sarah Teasley** (RMIT University)

*Presenters*

**Madhu Narayanan** (IIT Madras): Repair and Making: Untold Stories of Weaving Baskets in South India  
**Sarah Teasley** (RMIT University): Incentives for making, maintaining and repairing furniture in postwar Japan  
**Renée Riedler** (Weltmuseum Wien): Reflecting on the preservation of objects made of natural materials obtained from plants and animals through replication in conservation practice  
**Thamarai Selvan Kannan** (IIT Madras): Makers and Users' Knowledge: Repairing and Maintaining Sound Instruments in South India

**Wednesday 10 July 2024 - 4:30PM-6:00PM**

**Changing Medicine**

Chair: TBA

*Presenters*

**Ryan Carty** (Michigan State University): Vaccine Infrastructures: Animal and Human Labor in Twentieth Century West Africa – *SHOT ROBINSON PRIZE CANDIDATE*  
**Kaija-Liisa Koovit** (University of Strathclyde): The concept of repair in knee arthroplasty technology  
**Cristian Navarrete** (Pontificia Universidad Católica de Chile): Unsticking ourselves from antimicrobial resistance: a political journey from lab benches to global health inequalities  
**Clara Cuevas** (El Colegio de México): La sangre imaginada: tecnologías de la reparación sanguínea en México

**Hydro violence to quench imperial ambitions**

Chair: TBA

*Presenters*

**Jesudoss Arokiam** (Loganatha Narayanasamy Government College affiliated to University of Madras): Irrigation technology and repair works in Madras 1850 – 1950: Croscapes and disease imprint  
**Johannes Chan** (York University): The Metabolism of Empire: Ontario Watermills and Reparations in More-Than-Human Worlds – *SHOT ROBINSON PRIZE CANDIDATE*



**Mahendranath Sudhindranath** (Indian Institute of Technology Madras) *SHOT ROBINSON PRIZE CANDIDATE*, and **John Bosco Lourdusamy** (Indian Institute of Technology Madras): Reclamation, Repair, and Rice: Socio-Technical Processes in the Backwaters of a Princely State in Colonial India, c. 19th-20th century

**Baasit Abubakr** (Jawaharlal Nehru University, New Delhi, India.): Hydropower in the Himalayas: Empire, Electricity and Labour Precarity vis-a-vis Construction, Repair and Maintenance in the Princely State of Jammu & Kashmir

#### **A measure of certainty: Time, Locks & data**

Chair: TBA

##### *Presenters*

**Julien Gressot** (Université de Neuchâtel): Time Measurement at the Neuchâtel Observatory (1858-1960) – *SHOT ROBINSON PRIZE CANDIDATE*

**Adam Pisarek** (University of Silesia, Institute of Culture Studies): How to repair the wetland landscape? Measurement techniques in the service of conservation practices

**Daves Rossell** (Savannah College of Art and Design): Technology for Protection: The Proliferation of Locks in the American Residence, 1900-1950

#### **Preservation of natural resources and the environment**

Chair: TBA

##### *Presenters*

**Henk-Jan Dekker** (CNRS-CIRED): Maintaining the German forest: Timber, technology, and industrialization in the history of ideas, 1850-1900

**Maria Paz Almenara** (New York University): Data Landscapes: Computational Aesthetics, Environmental Aesthetics and Techniques of Colonial "Looking"

**Elias Amaya Nuñez** (Universidad de Tarapacá): Políticas tecnológicas, ingenieros y el programa tecnológico en energías renovables durante el Gobierno Revolucionario de las Fuerzas Armadas (Perú, 1968-1980)

**Martin Schmitt** (Paderborn University, Institute of History): Sustainable foreigners to repair and conserve European natures? Experimental cultivation of foreign tree species and their use in reforestation in Spain and Prussia

#### **Digital communication**

Chair: TBA

##### *Presenters*

**Salwa Hoque** (Yale University): Neocolonial Digitality: Limitations of Digital Tools to Process Non-English Script

**Julio Gutiérrez** (Universidad Adolfo Ibáñez): Más que reparación, remediación: readecuación de prácticas de enseñanza de oratoria y escritura académica en el contexto post-pandemia

**Ian Glazman-Schillinger** (Syracuse University): Liberty Bell's Electronic Ring: The Online Production, Presentation, and Maintenance of a White Power Activist Magazine between 1983 and 1999– *SHOT ROBINSON PRIZE CANDIDATE*

#### **Affixing moral values at the crossroads of patents, hackers & witchcraft**

Chair: TBA

##### *Presenters*

**Benedicto Acosta** (Universidad de Salamanca): A brief history of moral and political concerns about patents

**Cristián Palacios** (Universidad Alberto Hurtado): “Un oficio que es arte además de ciencia”: una aproximación histórica del técnico dactilógrafo en Chile, 1930- 1954

**Chu Eric Kangha** (University of Buea): Thunder Technology and Justice in Esu - Cameroon, 1880s - 1986

**Jacob Bruggeman** (Johns Hopkins University): Sizing up Ma Bell: Phone Phreaks, Vernacular Technoscience, and the Politics of System

## **Thursday 11 July 2024 - 9:00AM-10:30AM**

### **New directions in Nigerian history of technology (Part 1)**

Organizer and Chair: **Damilola Adebayo** (York University)

#### *Presenters*

**Patrick Okpalaeke** (York University): Gender as a Useful Analytical Category in Nigerian History of Technology

**Ifeoma Aneke** (University of Florida): Psychiatry, Technology, and Indigenous Knowledge in Precolonial and Colonial Nigeria

**Prince Vincent-Anene** (University of Wisconsin-Madison): The Moving Palace: Rethinking African Histories of Technology through Automobiles in Nigeria

**Blessing Edet** (University of Uyo, Nigeria): Stumbling Blocks to Nigeria’s Technology Dominance: Lessons from the Biafran Military Technology, 1967-1970

### **Engineering Repair, Repairing Engineers (Prometheans Sponsored Panel)**

Organizer: **Zachary Loeb** (Purdue University)

Chair: **Ellan Spero** (Massachusetts Institute of Technology)

#### *Presenters*

**Zachary Loeb** (Purdue University): “We could have fixed it” – Computer Professionals and the Year 2000 Technology Problem

**José Nochebuena** (National University of Mexico): Social Connections Among Mexican and American Engineers and Their Influence on the Repair of Mexico City’s Drainage System

**Katherine Vyhmeister** (Universidad Adolfo Ibáñez): Unveiling Hidden Narratives: Exploring Small-Scale Repair Initiatives in Post- Independence Chile

### **Desigualdad, precariedad y adaptación en los usos de la ciencia y la tecnología (Parte 1)**

Organizer: **Stefan Meier** (Pontificia Universidad Católica de Chile)

Chair: **Felipe Cárcamo** (Pontificia Universidad Católica de Chile)

#### *Presenters*

**Eduardo Godoy** (Universidad Andrés Bello): De anhelos y realidades en el Instituto de Higiene. Estrategias de gestión y adaptación técnica en la práctica de análisis de las secciones de química y bacteriología, Santiago 1892-1902

**Sonia Robles** (Universidad de Delaware): Innovación y reparación. Las actividades del ‘Laboratorio de Radio’ de la Secretaría de Educación Pública en México en los años 20.

**Stefan Meier** (Pontificia Universidad Católica de Chile): “Para reparar el daño se le había metido un pedazo de cañon de pluma”. Precariedades, técnicos y reparaciones en la astronomía y meteorología chilena (1852-1891)

### **Fire technologies. Contained combustion in the history of technology, 17th to 20th centuries**

Organizer and Chair: **Diego Arango López** (Universidad Católica del Maule)

*Presenters*

**Amparo Prieto** (Universidad de Zaragoza): Lámparas-tarro en los mapas nocturnos de Colbún  
**Diego Arango López** (Universidad Católica del Maule ): Fuego para la noche en Chile. Tecnologías para combatir el frío y la oscuridad. S. XVIII-XIX

**Francisco Sibaja** (Colegio de México ): Régimen de fuego y ganadería en el Caribe colombiano, siglo XX

**Vincent Dumas** (Université de Rennes 2): La fundición de metales “negrillos” en Potosí: un fracaso tecnológico (siglos XVII y XVIII)

**Reworking and Reconnecting: The influence of artificial intelligence on the historical research process**

Organizer and Chair: **Janet Toland** (Victoria University of Wellington)

*Presenters*

**Olli Rappe** (Aalto University, Finland): Epistemic tensions in the use of Artificial Intelligence in historical research process – *SHOT ROBINSON PRIZE CANDIDATE*

**Sebastian Boell** (University of Sydney Business School, Australia): Co-author Epistemic tensions

**Adrián Santuario** (National Autonomous University of Mexico): Chromatocracy: The Pantone of Mexican Social Mobility – *SHOT ROBINSON PRIZE CANDIDATE*

**Luke Stark** (Western University, London Ontario) and **Daniel Arauz Nuñez** (Western University, London Ontario) — *SHOT ROBINSON PRIZE CANDIDATE* – : Margaret Mead and Machine Translation

**Using, repairing and learning in the periphery: for a history of maintenance in Latin America (Session II)**

Organizer and Chair: **Guillermo Guajardo** (Universidad Nacional Autónoma de México)

**Waldo Vila** (Universidad Diego Portales): Adaptar y reparar. La industria de carrocerías y la locomoción colectiva de Santiago de Chile bajo las políticas neoliberales, 1980-1990

**Carlos Sanhueza-Cerda** (Universidad de Chile): ""All the instruments are in good condition"". Disputes about the functioning of the telescopes of the National Astronomical Observatory of Chile in the 19th century"

**Rodrigo Rivero Cantillano** (Universidad Adolfo Ibáñez): Operators and watchmen. The early years of telecommunications in Chile 1852-1872

**Marcelo Mardones Peñaloza** (Universidad Diego Portales): Maintaining the Movement: A Century of Spaces and Tasks in the Tram City. Santiago de Chile, ca. 1850-1950"

**Thursday 11 July 2024 - 11:00AM-12:30PM**

**Tele-exclusion/resistance**

Chair: TBA

*Presenters*

**Derek Vaillant** (University of Michigan): Jim Crow On the Line: Gender, Race, and the Politics of Radio Communication (1912-1918) (pre-recording)

**Agnieszka Dytman-Stasieńko** (University of Lower Silesia, Wroclaw, Poland): Adjusting, tinkering, and hacking as a form of technological resistance in Poland in the 80s

**Carson Benn** (Lincoln Memorial University): Educational Television in the Mountain South of the United States: Incorporating “Place” as a Measure of Care in Distance Learning Technology

**Yoehan Oh** (Yale University): Offshore Production of Video Display Terminals in an Immigrant Entrepreneur's Homeland, 1964-1989: Weaving histories of America, of Asian America, and of Asia through electronics

### **Dis/abilities and crisis**

Chair: TBA

#### *Presenters*

**Megan Johnson** (University of Guelph) – *SHOT ROBINSON PRIZE CANDIDATE* –, and **Eliza Chandler** (Toronto Metropolitan University), and **Carla Rice** (University of Guelph): Resisting Ableism: Maintaining Crip through Slow Technology

**Catalina Silva** (Universidad Diego Portales): Telerehabilitación: Adaptación de prácticas atención kinesiológicas a plataformas virtuales

**Deyanira Cuanal Cano** (Universidad Autónoma Metropolitana-Cuajimalpa): Healing with air: From circulation of iron lungs to circulation of moral models in polio outbreaks in México (1950-1965) – *SHOT ROBINSON PRIZE CANDIDATE*

**Magda Szarota** (Lancaster University): Reimagining Repair: Disabled Living Projects and Systemic Transformation

### **Policitics of display: Trauma & innovation at the museum**

Chair: TBA

#### *Presenters*

**Eric Hintz** (Smithsonian Institution): Inventing for Sports

**Breno Borges** (Centro Interuniversitário de História da Ciência e da Tecnologia ): The metamorphoses of plastic, the "MOPRA"project

**Magdalena Zdrodowska** (Jagiellonian University, Poland): To document to commemorate? Public health history on display

**Alejandra Ruiz-León** (Georgia Tech): Caged Knowledge: The history of TECNO-ITINTEC, the first interactive science museum in South America

### **Emerging cultures or computing**

Chair: TBA

#### *Presenters*

**Fenwick McKelvey** (Concordia University): World machines? Computer simulations as models of International Relations

**Miguel Muñoz** (Universidad Tecnológica Metropolitana): Cambio tecnológico en el ámbito del comercio internacional: la llegada de nuevas tecnologías de la información para los procedimientos aduaneros en la década de 1960

**Nabil Hassein** (New York University): A history of Arabic-based programming languages

### **Repairing and its practitioners**

Chair: TBA

#### *Presenters*

**Emmanuel Kengo** (University of Buea): From iron technologists to repairers of iron technology: The checkered history of iron technology in the North West of Cameroon.

**Lawrence Chichebem Solomon** (Nnamdi Azikiwe University): The Public Works Department (PWD) and Public Infrastructure Repair and Maintenance in Colonial Southeastern Nigeria, 1896-1960

**Denis Ljuljanovic** (TU Darmstadt, History of Technology): Cultures of Repair and Dysfunction: The Evolving Narrative of Digitally Connected Factories

**Rohini Patel** (University of Toronto): Delimiting Technologies, Damage, and Infrastructures of Repair: Agent Orange Redress Politics in the 1980s

**Learning on the go: Technical education & experiential knowledge**

Chair: TBA

*Presenters*

**Phoenix Paz** (The Graduate Center, CUNY): Ties that Bind: Lumber and Labor on Turn of the Century Colombian Railways – *SHOT ROBINSON PRIZE CANDIDATE*

**Jørgen Burchardt** (Museum Vestfyn): Standards in the Great Acceleration: An organizational analysis of standardization 1950-2024

**Antoni Roca-Rosell** (Institut d'Estudis Catalans): At the origin of technical education: from private to public learning in the XVIII century. The options in Reims, Barcelona, and Maó

**Daniel Pérez-Zapico** (Faculty of Philosophy and Liberal Arts. Autonomous University of Madrid): The Workings of National-Catholic Elec

tricity. Electrical Engineering in early 20th Century Spain and the Catholic Institute of Arts and Industries

**Thursday 11 July 2024 - 12:30PM-2:30PM**

Lunch break (no lunch provided, but Campus restaurant is open to all participants)

**Lunch session:**

**ICOHTEC Kranzberg Lecture 'Re-use for better health' by Sławomir Łotysz**

Re-use, repair and maintenance can be described as fundamental to the relationship between humans and technology. They characterize those types of interventions through which material products of technology are given new uses, restored to former functionality or kept in good working order. Re-use can also apply to technology itself, understood as a manufacturing process or technical knowledge. All of these activities play an important role in our quest for better health. In his lecture, Sławomir Łotysz will draw on cases from different regions and time periods to unravel the intertwined relationships between health, technology and policy that lead to and result from the re-use of technology, either as material objects or immaterial ideas, for better health.

**Thursday 11 July 2024 - 2:30PM-4:00PM**

**New directions in Nigerian history of technology (Part 2)**

Organizer: **Damilola Adebayo** (York University)

Chair: **Patrick Okpalaeke** (York University)

*Presenters*

**Odinaka Kingsley Eze** (Massachusetts Institute of Technology): Apprenticeship and Knowledge Production: Reimagining Science and Technology Education in Postcolonial Nigeria

**Sochima Peppertus Okafor** (University of Mississippi): Buildings of Deceit: Artisans, Colonial Cinemas, and the Transformation of Nigerian Cultural Values

**Mathias Chukwudi Isiani** (University of Pennsylvania): Who Built the City? Re-examining the Architects of Onitsha City, Nigeria

**Adeniji Abayomi** (Nigerian Defence Academy): Crisis Negotiations and Technology in Hostage Situations: Transforming Kaduna's Security Paradigm in The Digital Age

### **Impair/Repair: Disability Histories of Science and Technology**

Organizer: **Mara Mills** (New York University)

Chair and Commentator: **Jaipreet Virdi** (University of Delaware)

#### *Presenters*

**Mara Mills** (New York University): The History of "Impairment"

**Sarah Rose** (University of Texas at Arlington): "The Workmen's Compensation law is a direct slap in the face": Industrial Medicine, Safety Engineering, and the Problem of Disabled Workers, 1910s-1940s

**Frank Mondelli** (University of Delaware): Visible Vowels and Listening Limbs: Assistive Erasure in Japanese Publics

### **Desigualdad, precariedad y adaptación en los usos de la ciencia y la tecnología (Parte 2)**

Organizer: **Felipe Cárcamo** (Pontificia Universidad Católica de Chile)

Chair: **Stefan Meier Valenzuela** (Pontificia Universidad Católica de Chile)

#### *Presenters*

**Lucia Ortiz de Zárate Alcarazo** (Universidad Autónoma de Madrid): Desigualdad tecnológica: formas de injusticia en la Inteligencia Artificial

**Yenisa Guizado Mercado** (Universidad Nacional Mayor de San Marcos.): Informática y sociedad en un país desigual: el Centro de Cómputo de la UNI (1964-1980)

**Felipe Cárcamo** (Pontificia Universidad Católica de Chile): Los primeros intentos por testear la Teoría de la Relatividad General: una historia de precariedad y desigualdad en la física contemporánea

### **(In)visible matters: unseen agents and actors in science and technology (Part 1)**

Organizer and Chair: **Hugo Pereira** (CIUHCT - NOVA School of Science and Technology)

#### *Presenters*

**Ana Rodrigues** (CIUHCT - Faculty of Sciences of the University of Lisbon): Searching for Visibility: Iberian Early Modern Gardeners

**Carmo Lacerda** (CIUHCT - Faculty of Sciences of the University of Lisbon): Who's Guiding the Ship? Unveiling the Agency of Early Modern Oceanic Pilots

**Hugo Pereira** (CIUHCT - NOVA School of Science and Technology): The power of photography to give visibility to the invisible actors in science and technology

### **Electrificando Chile: aproximaciones metodológicas para reparar nuestra historiografía**

Organizer: **Cecilia Ibarra** (Universidad de Chile)

Chair: **José Soto** (King's College London)

Commentator: **Carlos Sanhueza** (Universidad de Chile)

#### *Presenters*

**José Soto** (King's College London) and **Cecilia Ibarra** (Universidad de Chile): Explorando el rol de la materialidad para transformar las relaciones de poder en el Plan de electrificación de Chile

**Marion Steiner** (Universidad de Chile) and **Pamela Fuentes** (Museo Histórico de Placilla): Historiografías desde la comunidad glocal: Hacia una patrimonialización crítica del Complejo Hidroeléctrico El Sauce y La Luz en Valparaíso

**Mónica Humeres** (Universidad Diego Portales) and **Magdalena Gil** (Pontificia Universidad Católica de Chile): Desentrañando la creación de un futuro brillante: Estadísticas, desastres y el nacimiento de la energopolítica en Chile durante la década de 1930

**Yohad Zacarías** (Universidad de Texas en Austin): Visiones sobre electricidad, medioambiente y tecnología en Chile (1970-2000) El caso de Chispita

## **Maintain the Play – On Ludic Objects in Public Spaces**

Organizer and Chair: **Florian Bettel** (University of Applied Arts Vienna)

### *Presenters*

**Margarete Jahrmann** (University of Applied Arts Vienna): FIX the World with Play! And quick fix with Experimental Game Cultures?

**Stefan Poser** (Karlsruhe Institute of Technology, KIT): Street Art – A New Perspective on Subversive Games?

**Florian Bettel** (University of Applied Arts Vienna): Topographies of Viennese Play Cultures

## **Thursday 11 July 2024 - 4:30PM-6:00PM**

### **Preventing and responding to disaster, human-made or otherwise**

Chair: TBA

### *Presenters*

**Mariana Calvo** (Stanford University): Damming Disparities: Repairing the Hidroituango Dam and the Wounds of Colombia's Conflict

**Jorge Alonso Rodríguez Ortiz** and **Marcela Efmertová** (Czech Technical University in Prague): A technical discussion of spark arresters on steam locomotives. Engineers' response to a safety and environmental protection issue.

**Marco Barrientos** (Universidad de Santiago de Chile): Unreinforced masonry heritage buildings and strengthening techniques during 20th Century in Chile: Historical perspectives toward contemporary controversies.

### **Reprogramming sex and gender**

Chair: TBA

### *Presenters*

**Amira Moeding** (University of Cambridge): 'Always better for men than for women': On conceptions of fairness, bias, and standards in 'data-driven' artificial intelligence research – *SHOT ROBINSON PRIZE CANDIDATE*

**Julie Wosk** (State University of New York, Maritime College): From Automaton to Sex Dolls: What Happens When Changing Technologies Make Simulated Females Seem Ever-More Real

**Nina Neuscheler** (Centre for Contemporary History Potsdam (ZZF)): Fixing gendered inequalities in the digital world. Computer courses for women and girls in Germany in the 1990s

**Artur Neves** (Centro Interuniversitário de História das Ciências e da Tecnologia, NOVA School of Science and Technology): From Fragile to Indestructible: exploring plastics technology in 19th-20th century dolls

### **Repair on wheels: Transport cultures of repair**

Chair: TBA

### *Presenters*

**Evelyne Tegomoh** (FSMS, University of Buea): Socio-cultural perception of the persons under the cars – *SHOT ROBINSON PRIZE CANDIDATE*

**Salah Hamdoun** (Arizona State University): Repair in the Face of Earth's Agency: The Role of Local Repair Initiatives in Societal Adaptation – *SHOT ROBINSON PRIZE CANDIDATE*

**Martin Meiske** (Deutsches Museum Munich/ Karlsruhe Institute of Technology): Cultures and Costs of Care. Towards a Diverse Material History of Railway Maintenance

**Historiographic Commitments in the History of Technology: Repair, Replace, or Refuse? (Roundtable)**

Organizer: **Edna Suárez Días** (National Autonomous University of Mexico (UNAM))

Chair and Moderador: **Scott Knowles** (Korean Institute of Advanced Science and Technology (KAIST))

*Panelists*

**Edna Suárez Días** (National Autonomous University of Mexico (UNAM)): "Overview of the Project"

**Amy Slaton** (Drexel University): "Innovation and its Uses"

**Jesse Smith** (Science History Institute): "Technology as Subject"

**Gisela Mateos** (National Autonomous University of Mexico (UNAM)): "Americas as Method"

**Holding (Outer) Space: Maintenance, Care, and Repair On and Beyond Earth (Roundtable - artifact)**

Organizer: **Lisa Ruth Rand** (California Institute of Technology)

Chair: TBA

*Panelists*

**Eleanor Armstrong** (Stockholm University): Tinkering to Put an American Blonde in Space

*Artifact:* Fan-made Sally Ride" Barbie doll

**Dana Burton** (New York University): A Future Repository of Life

*Artifact:* Life Detection Knowledge Base (LDKB)

**Rebecca Charbonneau** (The National Radio Astronomy Observatory): Falling and Falling Behind: The Role of Urgency and Repair in US Radio Astronomy

*Artifact:* Fragment of the collapsed 300-foot telescope

**Réka Patrícia Gál** (University of Toronto): Fixing Skylab: An Alternative History of Spaceflight through Breakdown and Repair

*Artifact:* Presidential message, Richard Nixon to Pete Conrad

**Lisa Ruth Rand** (California Institute of Technology): Palapa Power Play: Politics of Orbital Salvage and Repair in the Space Shuttle Era

*Artifact:* Model of Palapa B2 satellite and photographs from retrieval mission

**Lois Rosson** (Huntington Library): From Scientific Visualization to Interpretive Art: The Evolution of Chesley Bonestell's Lunar Landscape

*Artifact:* Reproduction of A Lunar Landscape mural"

**Energy transitions and infrastructural citizenship in local communities. Open collaborative workshop for international comparisons.**

Organizers: **Saara Matala** and **Anna Åberg** (Chalmers University of Technology)

*This session invites researchers to a workshop discussion of national and local histories of community transformation related to infrastructure development in a transnational and comparative setting.*

*The session will commence with concise presentations delving into specific Swedish and Finnish refinery projects using the pecha-kucha method. These short presentations aim to serve as a catalyst for discussion, and they will be followed by an open invitation to all participants to present their own cases and/or comments.*

**Friday 12 July 2024 - 9:00AM-10:30AM**



## **Animality as a Repairing Technology for the Meat Industry**

Organizer: **Chris Deutsch** (University of Missouri)

Chair: **Alexander Blanchette** (Tufts University)

### *Presenters*

**Chris Deutsch** (University of Missouri): Seeing the Feedlot like a Steer: The Industrialization of Cattle Feedlots in the United States

**Abeer Saha** (Smithsonian Institution): Beefmasters, Artificial Insemination, and Breeding for Industrial Feedlots in the 20th Century

**Andrew Seber** (University of Chicago): "A Changing Region: Rural Health, Land Loss, and the Price of Biosecurity"

## **Patent systems and participants (Part 1)**

Organizers: **Peter Meyer** (U.S. Bureau of Labor Statistics) and **Bernardita Escobar Andrae** (University of Valparaiso)

Chair: **Peter Meyer** (U.S. Bureau of Labor Statistics)

### *Presenters*

**Bernardita Escobar Andrae** (University of Valparaiso): Women in the patent system in Castellan Americas' Capitalism: subverting the Marianismo ideology in early XX century Chile

**Michael Andrews** (University of Maryland, Baltimore County, US), **Enrico Berkes** (University of Maryland, Baltimore County) and **Ruveyda Gozen** (London School of Economics, UK): Quantifying Patenting by Women in the U.S., 1836-1940

**Zorina Khan** (Bowdoin College): Women in the Republic of Enterprise: Entrepreneurship and innovation among French women inventors, 1791-1900

**Finni Jo Erdmann** (University of Mannheim): Sticking to the plan: Female inventors in the GDR

## **Epistemicidio y el problema de los límites de la reparación histórica**

Organizer: **Alexis Bedolla Velázquez** (UNAM):

Chair: **Fabian Prieto Nañez** (Virginia Tech)

### *Presenters*

**Jacques Ferreira Pinto** (Oswaldo Cruz Foundation): Manumission, health and slavery in nineteenth century Brazil.

**Leonardo Aranda Brito** (Medialabmx): No todo lo que brilla es oro: Historia material de la tecnología en México

**Alexis Bedolla Velázquez** (UNAM): ¿Reparar lo irreparable? Sobre los límites de la historia de tecnologías médicas

## **Tecnologías del cuidado sanitario y alimenticio: Mujeres y niños, Chile siglo XX**

Organizer and Chair: **Maria Soledad Zárate Campos**(Universidad Alberto Hurtado)

### *Presenters*

**Daniela Arrate** (Universidad Academia Humanismo Cristiano, INFAS): El voluntariado femenino de las Gotas de Leche. Mujeres en la promoción y transmisión de la "crianza científica". Chile 1911-1924 – *SHOT ROBINSON PRIZE CANDIDATE*

**Javiera Errazuriz** (Universidad Andrés Bello): Debates en torno a una tecnología de cuidados: la vacuna contra el VPH y estereotipos de género.

**Maricela González** (Universidad de las Américas Chile, Núcleo de Investigación Social Aplicada (NISA)): "Los niños mueren, las madres sufren, la patria peligra". Las mamaderas en las políticas sanitarias hacia madres e hijos. Santiago de Chile, 1890-1950

**Maria Soledad Zárate Campos** (Universidad Alberto Hurtado) and **Andrea del Campo** (University of Manchester): Cuidado femenino y tecnologías anticonceptivas, Chile 1960-1990

### **Reconstruction and Refurbishing: Repair and Maintenance in the Context of Mobility History in the Global South**

Organizer: **Yusuf Umar Madugu** (Bayero University)

Chair: **Jethron Ayumbah Akallah** (Maseno University)

#### *Presenters*

**Gladys Nyachio** (Multimedia University of Kenya): Politics of Potholes Repairs, Maintenance and Safety in Kenya

**Livinus Ikwuako Okeke** (Imo State University): The unfulfilled obligations to colonial Infrastructures in Nigeria's Post-Independence Railway System

**Uche Uwaezuoke Okonkwo** (University of Nigeria): Public Works Department and Forced Labour in Road Construction and Repairs in Eastern Nigeria, 1900-1960

**Yusuf Umar Madugu** (Bayero University): Repair, Construction and Maintenance of Road Infrastructure and the development of Urban Mobilities in Kano, Nigeria 1908-2015

### **NASA and Latin America**

Organizer and Chair: **Brian Odom** (National Aeronautics and Space Administration (NASA))

#### *Presenters*

**Erik Conway** (NASA Jet Propulsion Laboratory): A Brief History of the U.S./Argentina Aquarius/SAC-D mission

**Hugo Palmarola** (Pontificia Universidad Católica de Chile): NASA in Chile: Technology and Branding of the Main NASA Station in Latin America during the Cold War

**Pedro Alonso** (Pontificia Universidad Católica de Chile): NASA in the Most Remote Area: The Laser Station and the Landing Strip on Easter Island during the 1980s

**Stephen Buono** (University of Chicago): Latin America's Moon: Aldo Armando Cocca and the Question of Lunar Governance

## **Friday 12 July 2024 - 11:00AM-12:30PM**

### **Presidential Panel: Repairing, fixing, healing: disability and technology (Hybrid, Roundtable)**

Organizer and Chair: **Magdalena Zdrodowska** (Jagiellonian University)

#### *Panelists*

**Magdalena Zdrodowska** (Jagiellonian University)

**Ashely Shew** (Virginia Tech)

**Robert Stock** (Humboldt-Universität zu Berlin)

**Miryang Kang** (Korea Advanced Institute of Science and Technology)

**Raquel Velho** (Rensselaer Polytechnic Institute)

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

### **Repair objects and cultures**

Chair: TBA

#### *Presenters*

**Emanuela Scarpellini** (University of Milan): Re-fashion. Repairing and Rethinking the Fashion Model: the Case of Italy

**Helene Eisl** (University of Vienna): Preventive Repair, Preservation, and Reuse – A Case Study

**Marion Lester-Card** (Birkbeck University of London): Mass Consumption, Person-Object Relationships and Repair in late twentieth century Britain 1955-1972

**Tisha Hooks** (Yale University): Duct Tape and The Art and Craft of Making Do

### **Unseen actors: Repair in (un)expected spaces (Part 1)**

Chair: TBA

#### *Presenters*

**Joachim Allouche** (University of Southern Denmark): Design, Technology, and Production: Unseen technologies that helped the Danish glassware industry through the oil crisis

**Frank Dittmann** (Deutsches Museum, Munich): “Sick Dynamos” and Other Diseases of Electrical Machines – or Early Discourse on Maintenance and Repairs of Electrical Equipment

**David Drengk** (Institute of History, Technical University Dresden): Fish trade, everyday bicycle repair work and bikesmithing in southeastern Malawi

**Tristan Thielmann** (University of Siegen): Repairing Terrains: Smart Farming and Their New Bio- and Geo-diverse Actors

### **Reflexiones en torno a la producción de los cuatro tomos de Historia de la Ciencia y la Tecnología en Chile: convergencias, resistencias y transitorios (Roundtable)**

Organizers: **Cecilia Ibarra** and **Carlos Sanhueza** (Universidad de Chile)

Chair: **Carlos Sanhueza** (Universidad de Chile)

Commentator: **Daniel Pérez Zapico** (Universidad Autónoma de Madrid)

#### *Panelists*

**María José Correa** (Universidad Andrés Bello), and **Verónica Ramírez** (Universidad Adolfo Ibañez): Los géneros en la ciencia. Actores, prácticas y políticas

**Lorena Valderrama** (Universidad de Santiago de Chile), and **Marcelo Sánchez** (Universidad de Chile): Las ciencias y sus públicos. Circulaciones y colaboraciones en la producción de conocimientos científicos

**Bárbara Silva** (Pontificia Universidad Católica de Chile), and **Rodrigo Booth** (Universidad de Chile): Ciencia e historia ambiental: paisajes, conflictos y recursos

**Amarí Peliowski** (Universidad de Chile), and **Catalina Valdés** (Historiadora del arte e investigadora independiente): Cultura visual y material de las ciencias: imágenes, objetos y espacios

**Cecilia Ibarra** (Universidad de Chile), and **Nelson Arellano** (Universidad Academia de Humanismo Cristiano): Ciencia, tecnología e imaginarios de innovación

### **Troubling the Nation-State: Configurations and Contestations (Interactive workshop)**

Organizer: **Palashi Vaghela** (University of California, San Diego)

Chair and Commentator: **Lilly Irani** (University of California, San Diego)

#### *Presenters and Commentators*

**Felipe Trujillo Bilbao** (Universidad Católica de Chile): Unpacking the rich and famous: The Rockefeller Foundation's global and confusing way – *SHOT ROBINSON PRIZE CANDIDATE*

**Julián Gómez-Delgado** (The New School for Social Research): Contesting the Infrastructured Nation-State: The Technopolitics of Privatization in Colombia

**Nithyanand Rao** (University of California, San Diego): Invisible Labor and the “Ghost Particle”: Underground Physics at the Kolar Gold Fields

**Palashi Vaghela** (University of California, San Diego): Taming the Giant: Brahmanical imaginaries in oral history narratives of IT luminaries

### **Workshop on Writing for Everyone: Insights from IEEE Spectrum**

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

*Panelists*

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

**Jean Kumagai** (IEEE Spectrum)

**Lynn Heidelbaugh** (Smithsonian Institution)

**Friday 12 July 2024 - 12:30PM-2:30PM**

Lunch break (no lunch provided, but Campus restaurant is open to all participants)

**Lunch sessions: tba**

**Friday 12 July 2024 - 2:30PM-4:00PM**

**Patent systems and participants (Part 2)**

Organizers: **Bernardita Escobar Andrae** (University of Valparaiso), and **Peter Meyer** (U.S. Bureau of Labor Statistics)

Chair: **Bernardita Escobar Andrae** (University of Valparaiso)

*Presenters*

**Sophiya Rishyna** (University of Mannheim): Women, Jews, and Foreigners. A Data Analysis of Minority Inventorship in Nazi Germany

**Peter B. Meyer** (U.S. Bureau of Labor Statistics): Aeronautical inventors, 1880-1918

**Sandro Maino** (University Federico Santa Maria), **Constanza Sanchez Bustos** (University Federico Santa Maria), **Daniela Gil Brignardello** (University Federico Santa Maria), and **Matías Correa Díaz** (University Federico Santa Maria): El patentamiento de tecnologías de la edificación en Chile entre 1840 y 1930

**Martin Monsalve Zanatti** and **Jose Manuel Carrasco Weston** (University of the Pacific, Peru): Developing a patent system without innovation, Peru 1896-1930: Legislation, export and engineers

**Archaeology and the precolonial histories of technology in Africa**

Organizer: **Abidemi Babalola** (The British Museum)

Chair: **Damilola Adebayo** (York University, Toronto)

*Presenters*

**Neema Munisi** (University of Dodoma): The Social Life of Technology in the Indian Ocean World: Glass Beads in Precolonial Kilwa Kisiwani, Tanzania

**Robert Nyamushosho** (Queens College, City University New York): From Ore to Artifact: Exploring Metal Production and Consumption in Ancient Mberengwa, South-Central Zimbabwe

**Sulaiman Ahmed** (University of Ibadan): Precolonial Iron Working in Ile-Ife, Nigeria: Insights on Technology, Production, and Innovation

**Abidemi Babalola** (The British Museum): The Technology, Innovation, and Sociality of Glass in West Africa

**Arqueología de la tecnología**

Organizer and Chair: **Carola Flores Fernández** (Facultad de Artes Liberales, Universidad Adolfo Ibáñez)

*Presenters*

**Nicolás Lira** (Facultad de Ciencias Sociales, Universidad de Chile): Tecnología de la madera en el sur de Chile: Análisis de objetos, herramientas y artefactos de madera desde la dendro-arqueometría

**Andrea González Ramírez** (Escuela de Arqueología, Universidad Austral de Chile): Tecnologías de la reproducción y sociotécnica del cuerpo: Diálogos entre arqueología y bioantropología

**Itací Correa Girulat** (Universidad Alberto Hurtado): Mantención y reparación y reparación de vasuas cerámica. El valor una relación en el litoral hiperárido del norte grande de Chile

**Daniella Jofré** (Facultad de Ciencias Sociales, Universidad de Chile): Las ruinas de la revolución: caracterización arquitectónica y tecnológica de plantas de beneficio de minerales en el extremo norte de Chile durante el siglo XVII y XVIII

### **Maintaining the “Business” of the History of Computing**

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

Chair: **Paul Edwards** (Stanford)

#### *Presenters*

**Sam Franz** (University of Pennsylvania): Computing Scientific Agriculture: Iowa State’s Agricultural Experiment Station and the Place of Computing in US State Universities in the 1930s

**Zac Endter** (New York University): Labor and the Prehistory of Human-Computer Interaction, 1917–1962

**Salem Elzway** (University of Southern California): The Semiconductor’s Baton: Atari Politics and Computing at the End of the Cold War

**Charli Muller** (New York University): WiFi Neoliberalism: Wireless Networking’s Technical Undermining of the State 1985-2012

### **(In)visible matters: unseen agents and actors in science and technology (Part 2)**

Organizer and Chair: **Hugo Pereira** (CIUHCT - NOVA School of Science and Technology)

#### *Presenters*

**Luísa Sousa** (CIUHCT - NOVA School of Science and Technology): Selling automobility through processes of invisibilization in twentieth-century urban planning in Lisbon

**Monique Palma** (CIUHCT - NOVA School of Science and Technology): Animals as agents in the process for care and healing humans in Portugal in the 19th century

**Isabel Amaral** (CIUHCT - NOVA School of Science and Technology): Unseen Forces in Conflict: Tropical Diseases and the Portuguese Experience in Africa during WWI

### **Policies and Practices of Inclusion and Exclusion in Technology**

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

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

Commentator: **Fabian Prieto-Ñañez** (Virginia Tech University)

#### *Presenters*

**Luis Blacha, Nahuel Rodriguez, Gabriela Cévalo Bora, and Hernán Thomas** (National Council for Scientific and Technical Research, (CONICET)/ Scientific Research Commission of the Province of Buenos Aires (CIC-PBA) / National University of Quilmes (IESCT-UNQ): Beef Extract for Social Inclusion? Dynamics of Meat Industrialization in Argentina (1873-1960)

**Alan Meyer** (Auburn University): Jim Crow at Home and Yankee Imperialism Overseas: The "Unforgivable Blackness" of African American Commercial Pilots, 1945-1964

**Lydia LaFavor** (Independent Scholar): Restoring/Repairing Airspace Control: Nicaraguan and Salvadorean Regional Shoulder-Fired Air Defense Missile Technology Procurement and Transfers, 1981-1989 – *SHOT ROBINSON PRIZE CANDIDATE*

**Friday 12 July 2024 - 4:30PM-6:00PM**

**Economic development and innovation (Hybrid)**

Chair: John Krige (Georgia Tech)

*Presenters*

**Jorge Sosa** (Universidad Paris Nanterre - DICEN/ ArTec+): Tecno-estética e imaginación en la Industria 4.0: el caso de Audi México

**Tom Kelsey** (University of Oxford): “How Not To Do Industrial Strategy: the case of post-war Britain”

**Mila Samdub** (Yale Information Society Project): The “Indian model” of Networked Digitality: The Political Economy of Digital Public Infrastructures, 2009-present

**Aditi Dey** (The New School for Social Research): The Tech Entrepreneurs of Bangalore: Untold Histories of Making, Innovation, and Repurposing in a Rising Tech City, 1970s-2000s

**Unseen actors: Repair in (un)expected spaces (Part 2)**

Chair: TBA

*Presenters*

**Ransford Tei** (York University): ‘Beyond Footprints’: Uncovering the Invisible Labour of Human Portage in the Pre-Colonial Economy of the Ashanti Empire, 1695 – 1896 – *SHOT ROBINSON PRIZE CANDIDATE*

**Urna Mukherjee** (Johns Hopkins University): Teak Planks and Coir Rigging: European encounters with technological cultures of ship repair in the Early Modern Indian Ocean

**Mingyang Li** (Institute for the History of Natural Sciences, Chinese Academy of Sciences): How a Material for Repair Became a Material for Construction: A Case Study on the Development of Cement Vessels in PRC

**Repairing Economies in the Americas: Technological Fixes, the Politics of Development, and Labor in the Late Twentieth Century (Roundtable)**

Organizer and Chair: **Jason Ludwig** (Cornell University)

*Panelists*

**Colette Perold** (University of Colorado, Boulder)

**Fabian Prieto-Ñañez** (Virginia Tech)

**Jason Ludwig** (Cornell University)

**Richard A. Bachmann** (University of Michigan)

**Sam Schirvar** (University of Pennsylvania)

**Verónica Uribe del Águila** ( UC San Diego)

**Technology History and Collective Memory: A Discussion of the Exhibition and Book “How to Design a Revolution: The Chilean Road to Design”**

Organizer and moderator: **Eden Medina** (MIT)

*Panelists*

**Hugo Palmarola** (Pontificia Universidad Católica de Chile)

**Eden Medina** (MIT)

**Pedro Alonso** (Pontificia Universidad Católica de Chile)

**Saturday 13 July 2024 - 9:00AM-10:30AM**

**Engineering Repair (Prometheans Sponsored Panel) (Flash Talks)**

Organizer: **Ellan F. Spero** (MIT & Station1)

Chair and Moderator: **Ryan Hearty** (Johns Hopkins University)

*Presenters*

**Ellan F. Spero** (MIT & Station1) and **Christine Ortiz** (MIT Engineering Technologies of Repair: Public Health, Materials, Water and Faith in an Industrial City)

**Paul A. Wlodkowski** (Harold Alfond School of Engineering Maine Maritime Academy) and **Svetlana B. Ulyanova** (Peter the Great St. Petersburg Polytechnic University): Repairing and Maintaining the “Road of Life”: Science and Technology in the Siege of Leningrad

**Justin Castro** (Arkansas State University): The Mansion of Salina Cruz, Mexico: Engineers, Labor, and the Politics of the 'World's First Stationary Dredge

**David N. Lucsko** (Auburn University): Revisiting the Seat-Belt Interlock: A Case Study of the Utility of Automobile Repair Manuals

**Alexander L. Evenchik** (Northwestern University & MIT), **Ellan F. Spero** (MIT & Station1), and **Christine Ortiz** (MIT): Bridging Glass Education, Research, and Practice: Art, Engineering, and Experiential Learning at the MIT Glass Lab, 1967-1988

**Trabajo, tecnología y reparación en la minería del cobre en Chile**

Organizer: **Angela Vergara** (California State University, Los Angeles)

Chair: **Lorena Campuzano** (Independent)

*Presenters*

**René Cerda Inostroza** (Universidad de Santiago de Chile - USACH): Potrerillos, una ciudad sobre desechos tóxicos, relaves, reutilización de desechos y comunidad (1925-1938) – *SHOT ROBINSON PRIZE CANDIDATE*

**Ximena Ortiz** (Universidad de Santiago de Chile): Tecnologías artesanales y métodos rudimentarios. Apuntes para una historia del trabajo pirquinero en el Norte Chico de Chile – *SHOT ROBINSON PRIZE CANDIDATE*

**Victor Tapia Araya** (Universidad de Tarapacá, Arica): Tensiones, resistencias y adaptación laboral en los albores de la industrialización de la mina de cobre de Chuquicamata (1915-1935) – *SHOT ROBINSON PRIZE CANDIDATE*

**Ángela Vergara** (California State University, Los Angeles): El Soldado, 1965: Desastre, Fatalismo, y Comunidades Mineras

**Repair and Recycling in Early Modern Japan (17-19th Century)**

Organizer: **Dimitri Tatoyan** (CNRS)

Chair and Commentator: **Naofumi Nakamura** (Institute of Social Science, University of Tokyo)

*Presenters*

**Mathieu H.D. Fauré** (EHESS): The Repair Business: Sources of Revenue and Resilience among Iron Smelters in late 17th and early 18th century Noto peninsula – *SHOT ROBINSON PRIZE CANDIDATE*

**Aleksandra Kobiljski** (CNRS): Repair preconditions recycling: the role of intermediary actors in 19th century Edo second hand cloth market

**Dimitri S. Tatoyan** (CNRS): All-purpose Fixer: The example of Kume Eizaemon in Sakaide saltfields and Besshi Copper Mine in the 1820's – *SHOT ROBINSON PRIZE CANDIDATE*

**Earth repair? Global Perspectives on Technologies and Narratives of Sustainability (Part 1: Food and Agriculture)**

Organizers: **Matthias Heymann** (Aarhus University) and **Elena Kochetkova** (University of Bergen)

Chair: **Elena Kochetkova** (University of Bergen)

*Presenters*

**Pablo Carcamo** and **Maaz Gardezi** (Virginia Tech.): Agricultural Research Institutions between Promethean Control and Community Care

**Erik van der Vleuten** (Eindhoven University of Technology): Connected 'sustainability' histories and futures in Brazil and the Netherlands: reflections on a transnational, transformative and transdisciplinary history

**Matthias Heymann** (Aarhus University): Meanings of sustainability: The invention of Sustainable Palm Oil

**Julia Lajus** (University of Helsinki): Global Challenges in Marine Sustainability: IUU Fishing and Climate Change

### **Observar, medir y registrar - técnicas de Cartografía y Astronomía en observatorios astronómicos de Latinoamérica - siglos XIX - XX (Work-in-progress session)**

Organizers: **Millena Farias** and **Sabina Luz** (Universidade Federal do Rio de Janeiro)

Chair and Moderator: **Millena Farias** (Universidade Federal do Estado do Rio de Janeiro)

Commentator: **Thomás Haddad** (Universidade de São Paulo):

#### *Panelists*

**Sabina Luz** (Universidade Federal do Estado do Rio de Janeiro): Entre péndulas y cronómetros: medir y registrar el tiempo en el Observatório Nacional de Brasil en la primera década del siglo XX

**Maria Romênia Silva** (Universidade Federal do Rio Grande do Norte): Mirando a Venus: el revolver fotográfico y un astrónomo brasileño en Japón

**Millena Farias** (Universidade Federal do Rio de Janeiro): Del macro al microcosmos: disputas sobre el Instrumental Científico en el proceso De Institucionalización del Observatorio Imperial de Río De Janeiro (1826-1848)

**Marina Rieznik** (Investigadora independiente UNQ-CONICET): Documentaries of creation and academic research about Latin American Skies

### **In pursuit of the real: from coffee to videogames to deep**

Chair: TBA

#### *Presenters*

**Leticia Galluzzi** and **Adriana Farah** (Federal University of Rio de Janeiro): Technologies to control coffee frauds \_ how the social history of coffee shaped methods and practices

**Thiago de Melo Ferreira** (Federal University of Rio de Janeiro (UFRJ)): Piracy and the History of Videogames in Brazil: From the scarcity of games in stores to the abundance of CDs and DVDs on the streets.

**Milosz Markiewicz** (Adam Mickiewicz University - Poznań): Truth Search Engines. Content verification technologies as a tool for repairing a post-pandemic world

**Aurélie Petit** (Concordia University): Digital Resurrection: Bridging the Gaps in the History of Computing Animation and Sexuality

## **Saturday 13 July 2024 - 11:00AM-12:30PM**

### **Repair Words/Repair Worlds (Part 1) (Roundtable)**

Organizer and Moderator: **Joshua Grace** (University of South Carolina)

Commentator: **Feng Zhu** (University of Chinese Academy of Sciences)

#### *Panelists*

**Adele Leigh Stock** (Stanford University)

**Ucheawaji Josiah** (Adeleke University & Comparative Heritage Project, The Valor Group, Athens, GA)

**Javaria Barandiaran** (University of California, Santa Barbara)



**Lovisa Tegelela Nampala** (Ministry of Education, Arts and Culture, Ohangwena Education Directorate, Uukelo CS)

**Earth repair? Global Perspectives on Technologies and Narratives of Sustainability (Part 2: Infrastructure and landscapes)**

Organizer and Chair: **Matthias Heymann** (Aarhus University)

*Presenters*

**Camila Salinas** (P. Universidad Católica de Chile), **Renato D'Alençon** (P. Universidad Católica de Chile), and **Carmen Gómez** (Fundación Instituto Profesional Duoc-UC, Valparaiso): The “flying sands” of Chanco: environmental remediation in Chilean landscape, 1900 -1917

**Constanza Marin** (Universidad Católica del Norte): The transformation in rural land occupation and lifestyle around agriculture

**Elena Kochetkova** (University of Bergen): Food Making, Technology, and Sustainability in the Late Soviet Union

**Anwar Hossen** (University of Dhaka): Neoliberalism, Dispossession, and Environmental Degradation in Dhaka City, Bangladesh: Contextualizing Sustainability Perspective

**Transmedia Storytelling in History of Technology: Promoting Multivocality and Multiperspectivity in Web-based Narratives (Workshop: Video screening and discussion)**

Organizer: **Andreas Fickers** (University of Luxembourg)

Chair and Moderator: **Andreas Fickers** (University of Luxembourg):

*Presenters*

**Andreas Fickers** (University of Luxembourg) and **Helmuth Trischler** (Deutsches Museum München): Making Europe goes Comics: Translating Scholarship into an Interactive Online Comic

**Stefan Krebs** (University of Luxembourg): Minett-Stories: A TransmediaProject on a Steel Production Region in Luxembourg

**Dominique Santana** (University of Luxembourg): Colonia Luxemburguesa: An Interactive Web-documentary on the History of Steel Production in Brazil

**Chiara Ligi** (Design School of Politecnico di Milano): Moving Lusitania: An Immersive Voyage into the History of a Migrant Working Class District of an Industrial Town

**Racial Equity, Diversity, and Inclusion (REDI) I**

Organizer: **Jason Ludwig** on behalf of the REDI Committee

Race and the History of Technology: learning from the Drexel/SHOT transhemispheric seminar, part 1  
Further information will be posted as soon as possible

**Saturday 13 July 2024 - 2:30PM-4:00PM**

**Racial Equity, Diversity, and Inclusion (REDI) I**

Organizer: **Jason Ludwig** on behalf of the REDI Committee

Race and the History of Technology: learning from the Drexel/SHOT transhemispheric seminar, part 2  
Further information will be posted as soon as possible

**Repair Words/Repair Worlds (Part 2) (Roundtable)**

Organizer: **Joshua Grace** (University of South Carolina)

### *Panelists*

**Jonas van der Straeten** (Eindhoven University of Technology): Repairing, renovating, and negotiating identity at the (post)Soviet Periphery: Remont and Hashar

**Matthijs Degraeve** (FWO/Vrije Universiteit Brussel, Departments of History and Architectural Engineering): Repair as a marketing tool. Plumbers advertising repair skills in London, Paris and Brussels (1850-1940)

**Alberto Preci** (Post-doctoral fellow ANR Project Interruptions CNRS – CREDA ): Make it run again: talking repair in the Argentine Chaco

**Jamie Pietruska** (Rutgers University - New Brunswick): Surveying ‘Remedies’ in the Countryside: Data Practices, Paper Technologies, and the Country Life Commission

**Jesudoss Arokiam Sengol** (University of Madras): Irrigation technology and repair works in Madras 1850-1950: Cropscaes and disease imprint

**Consuelo Biskupovic** (Universidad Católica de Temuco): Socioecologías en torno a los bosques del desierto: una perspectiva desde la ciencia ciudadana y sus limitaciones

### **The Space Age in Latin America and the Caribbean: The Uses and Imaginaries of Outer Space and Space Technoscience**

Organizer: **Vanessa Freije** (University of Washington, Seattle)

Chair: **Bárbara Silva** (College UC / Instituto de Historia, Pontificia Universidad Católica de Chile)

### *Presenters*

**Vanessa Freije** (University of Washington, Seattle): On-the-Ground Labor with Outer-Space Technologies: Workers at Mexico’s First Satellite Earth Station

**Rebecca Charbonneau** (The National Radio Astronomy Observatory): Living Under ‘El Radar’: The Cold War’s Impact on Arecibo Observatory and Puerto Rico

**Gloria Maritza Gómez Revuelta** and **Juan Niemes** (El Colegio de México/Universidad de Guadalajara): Space in Latin America, Latin America in space. Astropolitics in Argentina and Mexico, 1961-1991

### **Technology, Sovereignty, and the Grammar of Empire in the History of Ocean Sciences**

Organizer: **Penelope Hardy** (University of Wisconsin-La Crosse)

Chair and Commentator: **Penelope Hardy** (University of Wisconsin-La Crosse)

### *Presenters*

**Natalia Gándara Chacana** (Pontificia Universidad Católica de Valparaiso): Weaponizing Indigenous and Vernacular Technologies: The Case of Patagonia’s Hydrographic Expeditions – *SHOT ROBINSON PRIZE CANDIDATE*

**Nancy Ko** (Columbia University): The Depths of Indigeneity: Diving Technology and the “Offshore” of Italian Settler Colonialism – *SHOT ROBINSON PRIZE CANDIDATE*

**Jonathan Galka** (Harvard University/Yale-NUS College): Bivalve Knowledges in Chemical Environments: Ed Goldberg, the Mussel Watch, and Globalizing Technologies of Marine Molluscan Sensation – *SHOT ROBINSON PRIZE CANDIDATE*

### **Earth repair? Global Perspectives on Technologies and Narratives of Sustainability (Part 3: Industry and energy)**

Organizer: **Matthias Heymann** (Aarhus University)

Chair: **Erik van der Vleuten** (Eindhoven University of Technology)

### *Presenters*

**Corinna Zeltsman** (Princeton University): Searching for Cellulose: Building a Sustainable Paper Industry in 20th-century Mexico

**Nkemjika Chimee Ihediwa** (University of Nigeria): Transnational corporations in Nigeria and the sustainability question

**Santiago Garrido, Emilia Ruggeri, and María Fernandez Vicente** (IESCT, Universidad Nacional de Quilmes): Origins of solar energy in the southern global south. Experiences and projects developed in Argentina, 1970-1990

**Mending history of technology: ideas for the future direction of the discipline**

Organizer and Commentator: **Anto Mohsin** (Northwestern University in Qatar)

Chair: **Sulfikar Amir** (Nanyang Technological University)

*Presenters*

**Michael O'Reilly** (Barchester Healthcare): A longue durée approach to the history of technology

**Anto Mohsin** (Northwestern University in Qatar): Technology in world history: a comparative analysis of three textbooks

**Sulfikar Amir** (Nanyang Technological University): Maintaining Vulnerability: The Sociotechnical Construction of Nuclear Disaster in Fukushima Daiichi