

**Program overview – version 11 November 2022 - 2**  
*(Links to online meeting rooms included)*

***Table of Content***

<b><i>SHOT Program Committee</i></b>	<b>2</b>
<b><i>SHOT Organizing Team</i></b>	<b>2</b>
<b><i>About SHOT</i></b>	<b>2</b>
<b><i>Secretary’s Note</i></b>	<b>4</b>
<b><i>COVID-19 policy</i></b>	<b>5</b>
<b><i>Sponsors</i></b>	<b>5</b>
<b><i>Overview of Events and Activities</i></b>	<b>6</b>
<b><i>Tours</i></b>	<b>8</b>
<b><i>Session Schedule</i></b>	<b>9</b>
- <b>Thursday 10 November 2022</b>	<b>9</b>
- <b>Friday 11 November 2022</b>	<b>10</b>
• Morning sessions	10
• Lunch sessions	15
• Afternoon sessions	15
• Evening sessions	21
- <b>Saturday 12 November 2022</b>	<b>21</b>
• Morning sessions	21
• Lunch sessions	26
• Afternoon sessions	26
• SHOT Awards and Fellowships Event	31
- <b>Sunday 13 November 2022</b>	<b>32</b>

## **2022 SHOT Program Committee**

The program is the result of the hard work of our Program Committee. We would like to thank the committee members for their hard work!

Atsushi Akera (Chair),

Joseph November (co-chair)

Jethron Akallah

## **SHOT Organizing Team**

Also, our gratitude for the work behind and in front of the scenes, SHOT's organizational Team:

### **SHOT Officers:**

Arwen Mohun (SHOT President)

Amy Bix (SHOT Treasurer)

Gabrielle Hecht (SHOT Vice-President/President Elect)

### **SHOT Secretariat:**

Jan Korsten (SHOT Secretary)

Sonja Beekers (SHOT Assistant Secretary)

Henk Treur and Jeroen Carbaat (SHOT Support Staff)

### **And a special word of thanks to:**

Eric Hardy (Loyola University New Orleans), for investing so much of his time, especially during the pandemic years!

And to Handy Acosta Cuellar, Filipe Cruz, and Raúl R. Alencar from Tulane University, for stepping in last minute!

## **About SHOT**

### **The Society for the History of Technology**

The Society for the History of Technology (SHOT) was formed in 1958 to encourage the study of the development of technology and its relations with society and culture. As an interdisciplinary organization, SHOT is dedicated not only to the history of technological devices and processes, but also to the relationships of technology with politics, economics, labor, social change, business, the environment, public policy, science, and the arts and humanities. SHOT includes almost 1200 individual members and 1000 institutional subscribers. In addition to professional historians and museum curators, SHOT members include practicing scientists and engineers, anthropologists, librarians, political scientists, and economists. An international society, SHOT meets annually in North America, Europe, or Asia and also jointly sponsors smaller conferences focused on more specialized topics of common interest with other scholarly societies and organizations. *Technology and Culture*, a quarterly journal, is published by the Johns Hopkins University Press for the Society for the History of Technology. In addition, SHOT publishes e-newsletters, and, with Johns Hopkins University Press a book series, *Historical Perspectives on Technology, Society, and Culture*. For further information about the Society, please contact Jan Korsten, SHOT Secretary, at [SHOT.secretariat@tue.nl](mailto:SHOT.secretariat@tue.nl), or visit our website, <http://www.historyoftechnology.org>.

## **SHOT Officers 2022**

President	Arwen Mohun
Vice President	Gabrielle Hecht
Secretary	Jan Korsten
Treasurer	Amy Bix
Editor of <i>Technology and Culture</i>	Ruth Oldenzien

## **SHOT Executive Council 2022**

Tiago Saraiva (2022-2024)  
Etienne Benson (2020-2022)  
Hyungsub Choi (2021-2023)  
Barbara Hahn (2020-2022)  
Gabrielle Hecht (2021-2023)  
Matthew Wisnioski (2022-2024)  
Ashley Shew (2022-2024)  
Teasel Muir-Harmony (2021-2023)  
Tom Misa (2021-2022)  
Lisa Ruth Rand (2020-2022)  
Bucky Stanton (2021-2023)  
Ksenia Tatarchenko (2021-2023)

GTHSOC ad

**The School of History and Sociology at the Georgia Institute of Technology invites applications to its graduate program in History and Sociology of Technology and Science at both the Masters and Ph.D. levels.**

This interdisciplinary program prepares individuals from a variety of backgrounds to engage the complex social issues posed by modern technology and science, broadly defined.

# **History and Sociology of Technology and Science at Georgia Tech**

**School of History  
and Sociology  
Georgia Tech  
Atlanta, GA 30332**

The application deadline for fall admission is  
Feb. 15, 2023. PhD applicants seeking funding  
must submit all materials by Jan. 10.

For more information, visit our website at [www.hsoc.gatech.edu](http://www.hsoc.gatech.edu) or  
contact Daniel Amsterdam, Director of Graduate Studies  
[daniel.amsterdam@hsoc.gatech.edu](mailto:daniel.amsterdam@hsoc.gatech.edu)

## Secretary's Note

Three times is a charm.

For the first time since 2019 we are able to meet in person again. I am looking forward to seeing you all in New Orleans. The Covid-19 pandemic made it necessary to switch the 2020 and 2021 New Orleans meetings to fully virtual meetings. Although these meetings were successful, they lacked the energy and interaction of an in person meeting. In New Orleans we are trying to bring back that *joie de vivre* feeling. We are also trying to create a safe meeting environment for all participants, volunteers, and staff. For this we need your corporation!

The Program Committee managed to build an inspiring program with research sessions, several presidential roundtables, exciting plenary opening, an award and fellowship event, various lunch sessions, as well as a number of SIG meetings and workshops, and the SIGCIS conference on Sunday. There is also sufficient time to meet colleagues and friends again and to browse to the book exhibit.

SHOT prides itself on being an open and friendly organization, especially at our annual meeting. You are welcome to sit in on the Executive Council's deliberations on Thursday, and you are also invited to attend 'Creating SHOT's Future: A Community Meeting' early Friday evening. This is a re-imagined version of the SHOT business meeting. A discussion and vote of the proposed constitutional amendments (see SHOT website) will be one of the agenda items. We will also share information about recent activities and future plans. Please bring your questions and great ideas.

This year's program is the result of the hard work of the 2022 Program Committee. On behalf of SHOT, I want to thank committee members Atsushi Akera (Chair), Joseph November (Co-Chair), and Jethron Akallah for putting together such a wonderful program under still challenging circumstances.

I also want to thank Arwen Mohun, Gabrielle Hecht, Amy Bix, Sonja Beekers, Jeroen Carbaat, Dean Schultheiss, Henk Treur, and our onsite volunteers, for their assistance in organizing the annual meeting. I am grateful for the time and energy Eric Hardy invested in the New Orleans meeting beginning in 2018. Finally, I also want to thank the staff of the Sheraton New Orleans Hotel. This is going to be a great meeting and SHOT owes you all a debt of gratitude for all your hard work!

I wish you a pleasant, inspiring, fruitful, and above all healthy meeting! Make sure to take care of the health of others and wear a face mask during the conference.

Jan Korsten  
SHOT Secretary

## Covid-19 Policy

The organizers of the meeting care about your health and hope that you also care about the health of others. We are particularly concerned about attendees who are immune-compromised or who are caretakers for friends and family members for whom COVID is potentially life-threatening. As you may know, the World Health Organization has also warned that 1 out of every 25 infections results in long COVID symptoms, including significant neurological and cardiovascular damage in young and previously health people, so it benefits all of us to exercise caution.

### COVID Precautions

- All attendees are required to wear a mask while attending or moving between SHOT activities in the Sheraton Hotel.
- You may remove your mask while eating and drinking at SHOT events.
- Masks and a limited number of testing kits will be available from the SHOT Staff desk.

Measures to expect at the conference:

- Sanitizing stations on various locations, second and fourth floor
- Signs reminding people of masking requirements on every door, and at the registration table.
- Session chairs asking attendees to mask
- Mask ambassadors cheerfully reminding attendees to mask and providing masks if need be. Please be nice to them, they're only trying to care for all!

Your cooperation is much appreciated. In case you have any questions just come to the registration desk at the conference or mail the SHOT Secretariat at [shot.secretariat@tue.nl](mailto:shot.secretariat@tue.nl).

## Sponsors

**The Society for the History of Technology gratefully acknowledges the following sponsors, publishers, and supporters. We thank them for their generosity and support:**

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University of Massachusetts Press  
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## Overview of Events and Activities

### THURSDAY 10 NOVEMBER 2022

9:00AM-2:00PM	Executive Council Meeting (open to all members)	Rhythms 1, 2 <sup>nd</sup> floor
1:00PM-6:00PM	Registration Desk	Lagniappe, 2 <sup>nd</sup> floor
1:00PM-6:00PM	Quiet Room	Crescent, 4 <sup>th</sup> floor
1:00PM-6:00PM	Nursing/Care Room	Ellendale, 4 <sup>th</sup> floor
1:00PM-9:00PM	Book Exhibit	Lagniappe/Waterbury, 2 <sup>nd</sup> floor
3:30PM-5:00PM	Roundtable Technology Policy and History of Technology	Rhythms 1, 2 <sup>nd</sup> floor + live streaming
3:30PM-5:00PM	SIG Conveners – Meeting (invitation only)	Rhythms 3, 2 <sup>nd</sup> floor
3:30PM-5:00PM	Technology & Culture Editorial committee and Contributing Editors Meeting (invitation only)	Oak Alley, 4 <sup>th</sup> floor
6:00PM-7:30PM	Plenary Opening session – Technology and empire: Caribbean Perspectives	Rhythms 1, 2 <sup>nd</sup> floor + live streaming
7:30PM-8:30PM	Opening Reception (pre-registration required)	Waterbury, 2 <sup>nd</sup> floor

### FRIDAY 11 NOVEMBER 2022

8:00AM-6:00PM	Registration Desk	Lagniappe, 2 <sup>nd</sup> floor
8:00AM-9:00PM	Book Exhibit	Lagniappe/Waterbury, 2 <sup>nd</sup> floor
8:00PM-6:00PM	Quiet Room	Crescent, 4 <sup>th</sup> floor
8:00PM-6:00PM	Nursing/Care Room	Ellendale, 4 <sup>th</sup> floor
7:30AM-8:30AM	First time attendees & students meet SHOT officers for breakfast and conversation (pre-registration required)	
8:30AM-10:00AM	Session Block 1	Various rooms
8:30AM-10:00AM	Presidential roundtable on African Histories of Science and Technology in the Classroom	Rhythms 1, 2 <sup>nd</sup> floor + live streaming
10:00AM-10:30AM	Break	Lagniappe/Waterbury, 2 <sup>nd</sup> floor
10:30AM-Noon	Session Block 2	Various rooms
Noon-2:00PM	Lunch break (lunch not included)	-
12:15PM-1:45PM	Presidential Roundtable: Disability Histories of Technology: New Work	Rhythms 1 + live streaming + live captioning
12:15PM-1:45PM	SHOT Asia Network informal meeting (lunch not included)	Rhythms 2, 2 <sup>nd</sup> floor
12:15PM-1:45PM	SIGCIS Business Lunch Meeting (pre-registration required)	Bayside B, 4 <sup>th</sup> floor

12:15PM-1:45PM	WITH Lunch Meeting (pre-registration required)	Bayside C, 4th floor
2:00PM-3:30PM	Session Block 3	Various rooms
3:30PM-4:00PM	Break	Lagniappe/Waterbury, 2 <sup>nd</sup> floor
4:00PM-5:30PM	Session Block 4	Various rooms
5:45PM-7:00PM	Creating SHOT's Future: A Community Meeting	Rhythms 1, 2nd floor
8:00PM-10:00PM	Grad Student Mixer (pre-registration required)	Tulane University

### **SATURDAY 12 NOVEMBER 2022**

8:00AM-6:00PM	Registration Desk	Lagniappe, 2 <sup>nd</sup> floor
8:00AM-9:00PM	Book Exhibit	Lagniappe/Waterbury, 2 <sup>nd</sup> floor
8:00PM-6:00PM	Quiet Room	Crescent, 4 <sup>th</sup> floor
8:00PM-6:00PM	Nursing/Care Room	Ellendale, 4 <sup>th</sup> floor
8:30AM-10:00AM	Session Block 5	Various rooms
10:00AM-10:30AM	Break	Lagniappe/Waterbury, 2 <sup>nd</sup> floor
10:30AM-Noon	Session Block 6	Various rooms
10:30AM-Noon	Presidential Roundtable: Career Diversity: Let's Talk About How SHOT Can Help	Rhythms 1, 2nd floor + live streaming
Noon-2:00 PM	Lunch break (lunch not included)	
12:15PM-1:45PM	EDITH Lunch Meeting (pre-registration required)	Bayside B, 4th floor
12:15PM-1:45PM	Mercurians & Jovians Lunch Meeting	Location to be announced
12:15PM-1:45PM	SMiTinG Lunch Meeting	Location to be announced
2:00PM-3:30PM	Session Block 7	Various rooms
3:30PM-4:00PM	Break	Lagniappe/Waterbury, 2 <sup>nd</sup> floor
4:00PM-5:30PM	Session Block 8	Various rooms
5:30PM-6:30PM	SHOT Awards & Fellowship Reception 2022	Waterbury, 2nd floor
6:30PM-7:15PM	Presentation SHOT Awards and Fellowship Winners 2022	Rhythms 1, 2nd floor + live streaming
7:15PM-7:45PM	SHOT Leonardo da Vinci Lecture 2022 by Donald MacKenzie	Rhythms 1, 2nd floor + live streaming

## **SUNDAY 13 NOVEMBER 2022**

8:00PM-3:00PM	Nursing/Care Room	Crescent, 4 <sup>th</sup> floor
8:30AM-5:00PM	SIGCIS Sunday Conference (pre-registration required)	Various rooms
8:30AM-Noon	SIGCIS Registration Desk	Bayside Foyer, 4 <sup>th</sup> floor
9:00AM-12:00PM	Albatrosses Sunday Morning Meeting	Gallier, 4 <sup>th</sup> floor
9:00AM-12:00PM	SHOT Asia Network Sunday Morning Meeting	Oakley, 4 <sup>th</sup> floor
9:30AM-12:00PM	Prometheans Sunday Morning Meeting	Eshterwood, 4 <sup>th</sup> floor
10:00AM-12:00PM	Edith and With Sunday Morning Workshop	Southdown

## ***Tours***

Due to the uncertainties caused by the COVID-19 pandemic SHOT decided not to offer organized tours. Of course, it is possible to book city tours or day trips via various vendors.

### **Discount Swamp Tour [Tourbigeasy.com](http://Tourbigeasy.com)**

Tourbigeasy gracefully is offering SHOT participants a discount, they opt for a call in policy:

For same day booking inquiries please call (504) 323-7123.

Guests who call in to book only need to mention the SHOT Conference and they will be discounted \$10 for the swamp tours and \$20 for the zipline tours. You will not need to provide any other identification outside of simply mentioning "SHOT".

Their offer will be good from the 5th until the 19th November to accommodate any attendees that may be coming early or are staying longer!



## SESSION SCHEDULE

### Thursday, 10 November 2022

#### 9:00 AM – 2:00 PM

##### Executive Council Meeting

*Rhythms I, 2<sup>nd</sup> floor, open to all members*

#### 3:30 PM – 5:00 PM

##### Technology Policy and History of Technology, Roundtable

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

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

##### *Panelists:*

**Sarah Bell** (Michigan Technological University)

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

**Richard Hirsh** (Virginia Tech)

**Richard John** (Columbia University)

**Meg Jones** (Georgetown University)

**Andrew Meade McGee** (Smithsonian Institution)

**Andrew Russell** (SUNY Polytechnic Institute)

##### **SIG Conveners meeting, followed optionally by SIG Conveners meet SHOT EC**

*Rhythms III, 2<sup>nd</sup> floor, Invitation only*

#### 6:00 PM – 7:30 PM

##### Plenary Opening Session

##### Technology and Empire: Caribbean Perspective

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Organizer and Chair: **Arwen Mohun**, SHOT President (University of Delaware)

##### *Presenters:*

**María Portuondo** (Johns Hopkins University): Technological Continuity and Change in the Colonial Caribbean

**Daniel B. Rood** (University of Georgia): Technology Against Empire: The Grinds of Power and Profit in 19th Century Cuba

**Allison Margaret Bigelow** (University of Virginia): When Language is the Archive: A New Reading of Mining Technologies in the Colonial Caribbean

#### 7:30 PM – 8:30 PM

**Opening Reception (pre-registration required):** *Waterbury, 2<sup>nd</sup> floor*

# Friday, 11 November 2022

## Friday 11 November 2022: 7:30 AM–8:30AM – Breakfast Session

First Attendees & Students meet SHOT Officers for Breakfast and conversation

(pre-registration required)

*Bayside C, 4<sup>th</sup> Floor*

Organizers:

**Arwen Mohun** (SHOT President), **Jan Korsten** (SHOT Secretary), and **Sonja Beekers** (assistant secretary)

## Friday 11 November 2022: 8:30 AM–10:00 AM

### F1: Early Career Workshop Session #1

*Gallier, 4<sup>th</sup> floor*

Organizer: **Early Career Interest Group (ECIG)**

Chair: **N. Bucky Stanton** and **Jason Ludwig** (SHOT ECIG Representatives)

*Presenters:*

**Julia Byeon** (Princeton University): Materiality Across the Periodic Table: A History of US Materials Policy

**Akshita Sivakumar** (University of California): The Promise and Perils of Hyperlocal Data

**Elaxis Trinity Williams** (Cornell University): Seeing with Sound: Objects and Approaches to Exploring Acoustic Ways of Knowing the Oceans and Seas

**Emmet von Stackelberg** (Rutgers University-New Brunswick): To Be Continued: Celluloid Film and the Continuous Temporalities of Capitalism

### F2: Presidential Roundtable on African Histories of Science and Technology in the Classroom

*Rhythms I, 2nd floor, live streaming with closed captioning - [LINK TO ONLINE MEETING ROOM](#)*

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

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

*Panelists:*

**Damilola Adebayo** (York University)

**Gabrielle Hecht** (Stanford University)

**Jethron Akallah** (Maseno University)

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

### F3: ~~Technological Soundscapes~~

*Due to withdrawal of two presenters this session has been cancelled, remaining paper moved to F8*

Chair: ~~**Susan Schmidt Horning** (St. John's University)~~

*Presenters:*

**PAPER MOVED TO SESSION F8**

**Michael Bivona** (Georgia Institute of Technology) - *ROBINSON PRIZE CANDIDATE*: SCIF: A History

~~NO SHOW: Rachel Hill (University College London): "Louder than the Loudest Thunders": The Acoustic Ecologies of Spaceflight Launch~~

~~NO SHOW: Andy Wright (University of Texas at Austin) — ROBINSON PRIZE CANDIDATE: Higher Calling: A history of notificatory media from the bell tower to the iPhone push notification~~

#### **F4: Imperialism, Religion, and Colonial Legacies**

*Oakley, 4<sup>th</sup> floor*

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

*Presenters:*

**Salwa Hoque** (New York University) - *ROBINSON PRIZE CANDIDATE*: Digital Databases: Colonial Legacies Reinscribed in Technologies

**Amanda Lanzillo** (Princeton University): Labor, Islam, and the Steam Engine: Urdu technical manuals and social identities in colonial India

**Handy Acosta** (Tulane University): Our Lady of Charity: Marian cult, syncretism, and copper mining in Cuba.

#### **F5: Engineering Empire, Globalization and Technological Change, Part A**

**Sponsored by SIG Prometheans**

*Rhythms III, 2<sup>nd</sup> floor*

Organizer and Chair: **Ellan Spero** (Massachusetts Institute of Technology & Station1)

*Panelists:*

**Nelson Ribeiro** (Universidade Católica Portuguesa): Broadcasting and the Engineering of an Imperial Public Opinion

**Emily Lynn Osborn** (The University of Chicago): Pathways and Headloads, Railroads and Roads: Colonial and Vernacular Engineering in Colonial West Africa

**Sebastian James Rose** (University of Greenwich) - *ROBINSON PRIZE CANDIDATE*: The telegraph from below: Race, labour and the Indo-European Telegraph Department 1862-1919

**Yandong Li** (University of Washington): A Cultural History of Acoustic Control (*NiP, Pre-Recorded presentation*)

#### **F6: Transnational Aerial Modernities**

*Oak Alley, 4<sup>th</sup> floor*

Organizer: **Sean Seyer** (The University of Kansas)

Chair: **Jeremy Kinney** (Smithsonian Air and Space Museum)

*Presenters:*

**Sean Seyer** (The University of Kansas): Stalled Ambitions: The Case of the Handley Page Slotted Wing

**Blair Stein** (Clarkson University): 'It's Always June in January:' Trans-Canada Air Lines' Sun Destinations, 1948-1955

Presenter: **Nathan Wood** (The University of Kansas): The Highs and Lows of Polish Aviation in the 1930s

**Waqar Zaidi** (Lahore University of Management Sciences): Aid for Airlines: The Pan American Technical Assistance Program in Asia, 1955-68

## **F7: Technological Change, Labor, and Diversity I: Industrial Transitions**

*Edgewood, 4<sup>th</sup> floor*

Organizer: **Corinna Schlombs** (Rochester Institute of Technology)

Chair: **Ruth Cowan** (University of Pennsylvania)

*Presenters:*

**Corinna Schlombs** (Rochester Institute of Technology): Real-Time Booking Terminals in US Banking Automation: Re-Skilling White Collar Workers?( NiP recording?)

**Julie Wosk** (SUNY Maritime College): Designing for Women's Safety in Industry

**Benjamin Lindquist** (Princeton University): Signed Sealed and Delivered: Stevie Wonder, Jerome Jackson and the First Private Reading Machine

## **F8: Surveillance: Origins & Futures**

*Estherwood, 4<sup>th</sup> floor*

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

*Presenters:*

**Sharrona Pearl** (Drexel University): Face Surveillance at Checkpoint Charlie

**Juana Catalina Becerra Sandoval** (IBM Research): Biometric Fetishization and Speaker Verification Technologies

**Brian Fairley** (New York University) - *ROBINSON PRIZE CANDIDATE*: The Birth of Multichannel Sound from the Spirit of Race Science

**Michael Bivona** (Georgia Institute of Technology) - *ROBINSON PRIZE CANDIDATE*: SCIF: A History

## **Friday 11 November 2022: 10:30 AM–Noon**

### **F24: Logistical Histories of Computing**

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning*

Organizer and Chair: **Matthew Hockenberry** (Fordham University)

*Presenters:*

**Kyle Stine** (Johns Hopkins University): Integrated Logistics and the Silicon Valley of the East, 1972–1978

**Verónica Uribe-del-Águila** (University of California, San Diego): From Making to Designing and Back: Tracing Technological Sovereignty Repertoires around Microchip Development in Jalisco, Mexico

**Ranjodh Dhaliwal** (University of Notre Dame): Logistical Graphics: Economic Crises and Outsourcing in the 1990s

**Andrew Lison** (University at Buffalo, SUNY): Computational Infrastructure and State-Socialist Piracy: The Global Reach of the Zilog Z80

## ~~**F9: Technologies of Life and Death in Modern East Africa and the Mediterranean World**~~

~~*9 November 2022: Due to several circumstances session withdrawn by organizer*~~

~~Organizer: **Marianne Dhenin** (Leibniz Institute of European History)~~

~~Chair: **Mohamed Gamal Eldin** (New Jersey Institute of Technology)~~

## **F10: Transnational and entangled histories of materials, bodies and objects**

*Evergreen, 4<sup>th</sup> floor*

Organizer: **Thamarai Selvan Kannan** (IIT Madras)

Chair: **Victor Seow** (Harvard University)

*Presenters:*

**Thamarai Selvan Kannan** (IIT Madras): Caste, Craft and Biomaterial: Technological History from South Asia

**Kim Junsoo** (KAIST - Korea Advanced Institute of Science and Technology): Social-Material Politics of Sand in Korean Peninsula

**Madhu Narayanan** (IIT Madras): Materiality as Constructed Notion: What a Bamboo Basket Can Tell Us?

## **F11: Roundtable: “Playing with Technology: How Outdoor Recreation Has Linked Nature, Culture, and Commerce”**

*Edgewood, 4<sup>th</sup> floor*

Organizer: **Matt Green** (University of Utah)

Chair: **Michael Childers** (Colorado State University)

*Panelists:*

**Matt Green** (University of Utah)

**Jesse Ritner** (University of Texas, Austin)

**Jacob Northcutt** (Montana State University)

**Sarah Pickman** (Yale University)

**John Flynn** (University of Utah)

## **F12: Evolution of Industrial Technology in British Colonies In Nineteenth & Twentieth Centuries & Its Benefits as Postcolonial Legacy**

*Bayside A, 4<sup>th</sup> floor*

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

Chair and Commentator: **Somaditya Banerjee** (Austin Peay State University)

*Presenters:*

**Baisakhi Bandyopadhyay** (Asiatic Society Kolkata India): The Evolution of Electrification in British India

**Peter Thorsheim** (University of North Carolina): Chemical Weapons as a Tool of Empire

**Ramesh Subramanian** (Yale University): A nuanced look at the evolution of technology in India

## **F13: Reflections and Perspectives on Globalization I, Roundtable discussion**

*Reflections and Perspectives on Globalization and the History of Technology from 50 Years in SHOT Oakley, 4<sup>th</sup> floor*

Organizer and Chair: **Darwin Stapleton** (Herman J. Albrecht Library of Historical Architecture)

*Panelists:*

**Darwin Stapleton** (Herman J. Albrecht Library of Historical Architecture)

**Soma Hewa** (Queens University)

**Peeter Mürsepp** (Tallinn University of Technology)

**Marcos Cueto** (FIOCRUZ – Instituto Oswaldo Cruz) – Not in Person, pre-recorded contribution

#### **F14: Engineering Empire, Globalization and Technological Change, Part B**

**Sponsored by SIG Prometheans**

*Rhythms III, 2<sup>nd</sup> floor*

Organizer and Chair: **Ellan Spero** (Massachusetts Institute of Technology & Station1)

*Presenters:*

**Shannon Brown** (Queen's University, Kingston Canada) - *ROBINSON PRIZE CANDIDATE*: Profits & Portability: Corporate Engineers, Satellite Infrastructure, and the Daily Work of Globalization

**Sarah Nelson** (Leiden University): Communications & Coloniality: Engineering Empire at the International Telecommunication Union, 1865-1960

**Beck Corby** (Rensselaer Polytechnic Institute): Ethical Conflicts and Moral Gray Areas: Engineering Education and Attitudes Towards Defense Work

**Alexander Magoun** (IEEE History Center): Teaching 'Engineering Empires' to Engineering Students

#### **F15: Writing and the Contexts of Code**

*Oak Alley, 4<sup>th</sup> floor*

Co-Organizers and Co-Chairs: **David Brock** (Computer History Museum) and **David Dunning** (University of Oxford)

*Presenters:*

**David Brock** (Computer History Museum): Licklider in the Library: Articulating Interactive Computing and the Cold War Library, Together

**Ulug Kuzuoglu** (Washington University in Saint Louis): Scripts qua Codes: Chinese Characters and the Information Age

**Clare Kim** (University of Illinois Chicago): The Invisible Work of Computational Inscription: Cybernetics and the Carceral Imagination

**David Dunning** (University of Oxford): "Basically in English": COBOL and the Construction of a Common Business Orientation

#### **F16: Pathways to technological transformation: Innovation, continuity and overlap in technological change**

*Gallier, 4<sup>th</sup> floor*

Organizer and Chair: **Alka Raman** (London School of Economics and Political Science)

Commentator: **Haig Smith** (University of Manchester)

*Presenters:*

**Karolina Hutkova** (London School of Economics and Political Science): Technology, political economy and sugar production in the nineteenth-century British Empire and Austria-Hungary

**Luise Elsaesser** (European University Institute): Get a Horse! The Prevalence of the Horse -Drawn Economy, 1870-1960 (NiP, Pre-Recorded Presentation)

**Alka Raman** (London School of Economics and Political Science) - *ROBINSON PRIZE CANDIDATE*: Indian cotton textiles and the evolution of spinning technology in the British cotton industry in the eighteenth century

**F17: Technological Change, Labor, and Diversity II: Global and New Economy**

*Bayside C, 4<sup>th</sup> floor*

Organizer: **Corinna Schlombs** (Rochester Institute of Technology)

Chair: **Heidi Voskuhl** (University of Pennsylvania)

Commentator: **Nina Lerman** (Whitman College)

*Presenters:*

**Bidisha Dhar** (Tripura University): The Knowledge Economy of the World Crafts Council (NiP, recording)

**Lee Vinsel** (Virginia Tech): Technology, Work, and Diversity in “the New Economy”

**Jerry Jacobs** (University of Pennsylvania): The Long Expansion and Decline of Blacksmiths: New Evidence from Linked US Decennial Censuses

**Friday 11 November 2022: 12.15 PM – 1:45 PM – Lunch Sessions**

**Presidential Roundtable “Disability Histories of Technology: New Work”**

*Rhythms I, 2<sup>nd</sup> floor + streaming – live captioning available – [LINK TO ONLINE MEETING ROOM](#)*

Organizer and co-chair: **Bess Williamson** (School of the Art Institute of Chicago)

Commentator and co-chair: **Mara Mills** (New York University)

*Panelists:*

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

**Mara Mills** (New York University)

**Frank Mondelli** (UC Davis)

**Sarah Rose** (UT Arlington)

**Jaipreet Virdi** (U of Delaware)

**Di Wu** (MIT)

**SIGCIS Business lunch** (pre-registration required)

*Bayside B, 4<sup>th</sup> floor*

**WITH Lunch Meeting** (pre-registration required)

*Bayside C, 2<sup>nd</sup> floor*

**ASIA Network, informal meeting** (lunch not included)

*Rhythms II, 2<sup>nd</sup> floor*

**Friday 11 November 2022: 2:00 PM – 3.30 PM**

**F18: Power and production during imperial conflict and realignment**

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

**Sponsored by SIG Jovians**

Organizer and Chair: **George Wilkenfeld** (Independent Scholar)

*Presenters:*

**George Wilkenfeld** (Independent Scholar): Soldiering on: How plague, war and imperial politics shaped Sydney's electricity supply

**Sergio Guillen Grillo** (Texas Tech University – Cost Rica): The unfinished task of energy democracy: Governing electricity in the “Green Republic”

**Kevin Moskowitz** (University of Texas at Arlington): “No Shrewder Blow:” Supply Shortages and Manufacturing Challenges in the American Automobile Industry, 1938-1945

**Y Srinivasa Rao** (Bharathidasan University): Electricity and Urbanisation in Madras, 1895-1930

### **F19: Rethinking technological change in art 1**

*Oak Alley, 4th floor*

Co-Organizers: : **Magdalena Zdrodowska** (Institute of Audiovisual Arts, Jagiellonian University) and **Slawomir Lotysz** (Institute for the History of Science of the Polish academy of sciences)

Chair: **Magdalena Zdrodowska** (Institute of Audiovisual Arts, Jagiellonian University)

*Presenters:*

**Magdalena Zdrodowska** (Institute of Audiovisual Arts, Jagiellonian University,): Film as a ‘printing press’ for the deaf: cinematic preservation and standardization of sign language in the 1910s

**Craig J. Peariso** (Boise State University): “Approaching Utopia: ‘New Media’ at the turn of the Millennium”

**Slawomir Łotysz** (Institute for the History of Science of the Polish academy of sciences): Contesting revolution: deaf viewers and cinema musicians against the introduction of sound in movies

**Tyler Klatt** (University of Florida): There’s an App for That: Streaming Apple TV+ in the Global Platform Economy

### **F21: Industry & Production**

*Bayside A, 4<sup>th</sup> floor*

Chair: **Victor Seow** (Harvard University)

*Presenters:*

**M. R. Sauter** (University of Maryland) - *ROBINSON PRIZE CANDIDATE*: A Businessman’s Risk: How High Finance Changed Understandings of “Risk” in the American High Technology Sector 1974-1981

**Salem Elzway** (University of Michigan): Forces of Production Standards: Automation, Collective Bargaining Infrastructure, and the Productivity Trap

**Guillaume Yon** (London School of Economics): Infrastructural Calculations: Dynamic Pricing and the Changing Architecture of Market Power (1950s-present)

### **F22: The Intellectual History of Technology**

*Evergreen, 4<sup>th</sup> floor*

Organizer: **Kate McDonald** (University of California, Santa Barbara)

Commentator: **Eda Kranakis** (University of Ottawa)

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



*Presenters:*

**Kate McDonald** (University of California, Santa Barbara): What Makes Transportation History: The Forgotten History of a Global Idea

**Elizabeth Petrick** (Rice University): The Intellectual History of a Machine: The Ideas Behind Tablet Computers

**Laura Ann Twagira** (Wesleyan University): Baby Bottles and Weighing Scales: Population Politics, Colonial Objects and Intellectual History in the French Soudan (West Africa)

### **F23: Engineering the Anthropocene**

*Estherwood, 4<sup>th</sup> floor*

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

*Presenters:*

**Ryan Ellis** (Northeastern University - Boston): "Hurricane LUMA": Rethinking Power and History in Puerto Rico (*Not in Person, Pre-Recorded presentation*)

**Oleksandr Polianichev** (Södertörn University, Stockholm): Undoing the Pleistocene: The Russian Empire and the "Re-Tropicalization" of the South Caucasus (*Not in Person - recorded presentation*)

**William Logan** (Pacific Union College): Farmers and technocrats: The contested meanings and uses of California's Central Valley Project

### **F24: Logistical Histories of Computing**

*11 November: Moved to 10.00 AM – Noon timeslot (streaming room)*

### **F25: Future Visions and Reality I: Urban Infrastructures**

*Oakley, 4<sup>th</sup> floor*

Chair: **Jeff Schramm** (Missouri University of Science and Technology)

*Presenters:*

**Scott Kushner** (University of Rhode Island): Moving Crowds to and from the 1939-40 New York World's Fair

**Adam Givens** (The National WWII Museum): The Future That Never Came: Helicopters and the American City (*Not in Person, recorded presentation*)

### **F26 Gendering/Engendered Technology**

*Gallier, 4<sup>th</sup> floor*

Chair: **Rachel Maines** (Rachel Maines Inc.)

*Presenters:*

**Josef Taalbi** (Lund University): The gendering of US electric cars, 1895-1915. (*Not in Person - recorded presentation*)

**Jamie Steele** (Rensselaer Polytechnic Institute): Teaching ELIZA to Speak: The Co-Production of Gender and Natural Language Technologies

**Martha Liliana Espinosa Tavares** ( Duke University): Mexican Chemists, Progesterone, and Contraceptive Pill trials in Mexico (1951-1962) (*Not in Person - recorded presentation*)

## **Friday 11 November 2022: 4:00 PM – 5.30 PM**

### **F27: Fluid Technologies: Engineering Marine Space and Species**

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Organizer: **Lijing Jiang** (The Johns Hopkins University)

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

#### *Presenters:*

**Lijing Jiang** (The Johns Hopkins University): Between Efficient Designs and Realities of Water Economy: Prawn Cultures in Japan and Thailand

**Kjell Ericson** (Kyoto University): Monopoly Visions, Biotechnical Secrecy, and Embodied Knowledges in Postwar Japan's First "Overseas" Pearl Farm

**Christine Keiner** (Rochester Institute of Technology): Marine Invasion Science, Environmental Politics, and Technological Change in Ballast Water Management

**Sam Muka** (Stevens Institute of Technology): Creating a Secret Sink: Artificial Reefs as Trash Technologies

### **F29: “State of the System: (Re)conceptualizing Energy Infrastructures”**

*Estherwood, 4<sup>th</sup> floor*

Organizer: **Matthew Eisler** (University of Strathclyde)

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

#### *Presenters:*

**Matthew Eisler** (University of Strathclyde): “Automobility as Energy Infrastructure”

**Sarah Stanford-McIntyre** (University of Colorado Boulder): “Geophysics, Oil, and the Labored History of Data Visualization in the Twentieth Century”

**Robert Lifset** (University of Oklahoma): “Energy Independence and the Infrastructure of 1970s Energy Policy”

### **F30: Cold War & US Dominance in the Pacific**

*Oakley, 4<sup>th</sup> floor*

Chair: **Teasel Muir-Harmony** (Smithsonian National Air and Space Museum)

#### *Presenters:*

**Dante LaRicca** (Yale University) - *ROBINSON PRIZE CANDIDATE*: Climate Control: Energy and the Imperial Politics of Air Conditioning in the American Pacific (*Not in Person - recorded presentation*)

**Robert Jacobs** (Hiroshima City University): When is a nuclear test actually an attack?: Cold War thermonuclear testing and downwind fallout clouds (*Not in Person - recorded presentation*)

**Hanzhang Ye** (University of Minnesota) - *ROBINSON PRIZE CANDIDATE*: See Chinese Computers through An American Eye: An American Computer Scientists Delegation to China in 1972

**Miaofeng Yao** (HSTM, University of Minnesota): Chinese Typewriter/Keyboard and Bureaucracy Politics

**F31: Reflections and Perspectives on Globalization II** *Reflections and Perspectives on Globalization and the History of Technology from 50 Years in SHOT*

*Evergreen, 4<sup>th</sup> floor*

Organizer and Chair: **Darwin Stapleton** (Herman J. Albrecht Library of Historical Architecture)

*Presenters:*

**Darwin Stapleton** (Herman J. Albrecht Library of Historical Architecture): Reflections and Perspectives on Globalization and the History of Technology from 50 Years in SHOT

**Marcos Cueto** (FIOCRUZ – Instituto Oswaldo Cruz): Global Health, AIDS and Antiretrovirals in Brazil (possible recorded presentation)

**Soma Hewa** (Queens University): “Globalizing Primary Healthcare”: The Role of Rockefeller Philanthropy in the Development of Public Health in Colonial and Post-Colonial Sri Lanka

**Peeter Mürsepp** (Tallinn University of Technology): Globalization and the Megamachine

**F32: Abstractions and Embodiments: New Histories of Computing and Society**

*Rhythms III, 2<sup>nd</sup> floor*

Organizer: **Stephanie Dick** (Simon Fraser University)

Chair: **Janet Abbate** (Virginia Tech)

*Panelists:*

**Zachary Loeb** (University of Pennsylvania)

**Marc Aidinoff** (Jefferson Scholars Foundation)

**Tiffany Nichols** (Princeton University)

**Jaroslav Švelch** (Charles University, Prague)

**Kelcey Gibbons** (MIT)

**Ekaterina Babinsteva** (Purdue University)

**F33: Future Visions and Reality II: Imperialism and Colonial Legacies**

*Edgewood, 4<sup>th</sup> floor*

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

*Presenters:*

**Luis Felipe Eguiarte Souza** (University of Minnesota) - *ROBINSON PRIZE CANDIDATE*: Masters of an Improbable Future: How Technocracy Shaped the Utopian Visions of the British Scientists J. B. S. Haldane, J. D. Bernal, and Julian Huxley

**Yuting Dong** (Harvard Academy for International and Area Studies) - *ROBINSON PRIZE CANDIDATE*: Water Plant of Friendship? The Afterlife of Japan’s Imperial Infrastructure in Northeast China, 1972–1991

**Henry Schmidt** (University of California, Berkeley) - *ROBINSON PRIZE CANDIDATE*: Invention and Cultural Development in American Ethnology, 1876-1904

**F34: Early Career Workshop Session #2**

*Gallier, 4<sup>th</sup> floor*

Organizer: **Early Career Interest Group (ECIG)**

Chair: **N. Bucky Stanton** and **Jason Ludwig** (SHOT ECIG Representatives)

*Presenters:*

**Tijana Rupcic** (Central European University): In the Seam: Development of the Electric Grid in the Balkans: Case of Yougelexport Project

**Kento Yokoi** (The University of Tokyo): Military Radio as Technology of Empire: The Japanese Navy's Radio Weapons and Overseas Expansion in Asia

**Claudia Eldib** (Arizona State University): Missionaries, Medium, and the Message: The History of Communications Technology in Rwanda, 1900-1962

**Shravasti Pathak** (The University of Burdwan): Nineteenth Century Bengal and Dr. Nilratan Sircar: Entrepreneurial Ventures of a Physician

## **Friday 11 November 2022: 6:00 PM–7.45 PM – Evening Sessions**

### **Creating SHOT's Future: A Community Meeting**

*Rhythms 1, 2<sup>nd</sup> floor, live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Organizers: **Arwen Mohun** (SHOT President), **Gabrielle Hecht** (SHOT Vice President), **Amy Bix** (SHOT Treasurer) and **Jan Korsten** (SHOT Secretary)

- **Arwen Mohun: Building and Sustaining SHOT Communities**
- **Gabrielle Hecht: Looking to the Future**
- **Audience: Discussion**
- **Discussion and vote on constitutional amendment (in person only)**

*Please join the SHOT officers for a re-imagined version of the SHOT business meeting. A discussion and vote of the proposed constitutional amendments will be one of the agenda items. We will also share information about recent activities and future plans. Please bring your questions and great ideas.*

## **Friday 11 November 2022: 8:00 PM – 10PM**

**Grad Student Mixer** (*pre-registration required*)

*External location (mailed to registratants)*

# SATURDAY 12 November 2022

## Saturday 12 November 2022: 8:30 AM – 10:00 AM

### S1: Early Career Workshop Session #3

*Oak Alley, 4<sup>th</sup> floor*

Organizer: **Early Career Interest Group (ECIG)**

Chair: **N. Bucky Stanton** and **Jason Ludwig** (SHOT ECIG Representatives)

#### *Presenters:*

**Weihang Wang** (The Chinese University of Hong Kong): Sound of Machines, Sound of Nature: The Great Third Front and Haunted Environmental Issues

**Tian Zhang** (Tongji University): Global Technology Knowledge and Its Localization: A Study of Construction Technology Knowledge Books in the Early 20th Century China

**Megan Moore** (University of Minnesota,): Disability as a Technological Condition of Capitalist Fragmentation: Toward a Theory of Healing Exchanges as the Creation of Associated Techno-Ecological Milieus

**Shanshan Yang** (Rensselaer Polytechnic Institute): A history of Exif as metadata in digital photo archives

### S2: Imperialism, Globalization, and the Making of Geographic and Temporal Peripheries

*Rhythms I, 2nd floor (live streaming with closed captioning) – [LINK TO ONLINE MEETING ROOM](#)*

Chair: **Dave Lucsko** (Auburn University)

#### *Presenters:*

**Shankar Nair** (King's College London): Tools of Empire? Small and Unorganized Industries in Late Colonial India, 1900-45 (*Not in Person, Pre-Recorded presentation*)

**Carlos Arriaga Serrano** (Northeastern University): Puerto Rican Niches-Regimes: The Innovative and Transformative Power of Community-led Initiatives in Puerto Rico's Energy Transition

### S3: Writing and Making the Constructed Environment: Grounding Creative Practices in Histories of Technology

*Rhythms III, 2<sup>nd</sup> floor + live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Organizer: **Kristine Ericson** (Yale University)

Chair: **Saima Akhtar** (Barnard College)

#### *Panelists:*

**Kristine Ericson** (Yale University)

**Charlotte Leib** (Yale University)

**Lucy Sabin** (University College London)

**Jia Weng** (Yale University)

**Sabrina Chou** (University of Oxford)

### S4: Technologies of History: Temporality and Empire in the Anthropocene

*Estherwood, 4<sup>th</sup> floor*

Organizer: **N. Bucky Stanton** (Rensselaer Polytechnic Institute)

Chair: **Scott Gabriel Knowles** (Korea Advanced Institute of Science and Technology)

*Presenters:*

**N. Bucky Stanton** (Rensselaer Polytechnic Institute): Excavating Modernity at Megalopolis: Technology, Archaeology, and Empire

**Caroline Mason** (Rensselaer Polytechnic Institute): Organizing the Past: The World Digital Library, Universal History, and the Politics of Knowledge Infrastructures

**Samaa Elimam** (Graduate School of Design at Harvard University): Tributaries of Time: Land Surveying Manuals and the 'Artifaction' of the Nile River, 1849-1879

### **S5: The Images of Counter Hegemony**

*Bayside A, 4<sup>th</sup> floor*

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

*Presenters:*

**Elizabeth Patton** (University of Maryland, Baltimore County): Home Movies: Documenting Black Tourism as a Form of Resistance

**Bree Lohman** (University of Toronto) - *ROBINSON PRIZE CANDIDATE*: (Re)Mediating the Past: Canada, the DEW Line, and the Legacies of Cold War Ruins (*Not in Person, Pre-Recorded presentation*)

**Boyd Ruamcharoen** (Massachusetts Institute of Technology) - *ROBINSON PRIZE CANDIDATE*: Archive Fever After Empire: Archival Microphotography, the United States, and the Postcolonial Tropics

### **S6: The Comforts and Contestations of Power: Latin American Wind, Water, and Nuclear Energy in the Twentieth and Twenty-First Centuries (Edgewood, 4<sup>th</sup> floor**

Organizer and Chair: **Justin Castro** (Arkansas State University)

*Presenters:*

**Bridget María Chesterton** (SUNY Buffalo State): Debernardi's First Dam: Acaray, Modernity, and Consumption in Stroessner Era Paraguay

**Pete Soland** (Southeastern Missouri State University): Atucha, Angra, and Laguna Verde: Nuclear Power, Popular Discourse, Community Protest, and Cold War Politics in Latin America

**Germán Vergara** (Georgia Tech): The Wind that Swept Mexico: A Minimal History of Mexican Wind Energy

### **S7: Digital Globalization and Food Culture: Food Fusions and Transformations**

*Evergreen, 4<sup>th</sup> floor*

Organizers: **Caitlin Burke** (Department of Communication, Stanford University) and **Eugy Han** (Department of Communication, Stanford University)

*Panelists:*

**Caitlin Burke** (Department of Communication, Stanford University)

**Eugy Han** (Department of Communication, Stanford University)

**Emily Mariko** (TikTok Influencer)

## **S8: Urban Planning & Design**

*Oakley, 4<sup>th</sup> floor*

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

*Presenters:*

**Mariam Sabri** (UC Berkeley): Inhabiting Instruments, Creating a Cosmic City: Jai Singh, the Jesuits and the Making of Jaipur and its Jantar Mantar Observatory (*Not in Person, Pre-Recorded presentation*)

**Nathalie Roseau** (École des Ponts Paris Tech): Suburban versus metropolitan technoscapes  
Reconsidering infrastructure as a space for the city-territory

*Presenters:*

**Stephanie Grey** (Louisiana State University, Baton Rouge): Charnel Ground: The Hyperobject Descends in Mossville

## **Saturday 12 November 2022: 10:30 AM–Noon**

### **S9: Presidential Roundtable: Career Diversity: Let's Talk About How SHOT Can Help**

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Organizer: **Arwen Mohun** (President of the Society for the History of Technology - University of Delaware)

*Panelists:*

**Arwen Mohun** (University of Delaware)

**Teasel Muir-Harmony** (Smithsonian National Air and Space Museum)

**Jesse Smith** (Science History Institute)

**Matthew Wisnioski** (Virginia Tech)

### **S10: Storytelling Global Power from the Peripheries**

*Rhythms III, 2<sup>th</sup> floor + live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Organizers: **Maria Paula Diogo** (NOVA School of Science and Technology, CIUHCT, Portugal) and **Ana Simões** (School of Sciences/University of Lisbon, CIUHCT, Portugal)

Chair & Commentator: **John Krige** (School of History and Sociology Georgia Institute of Technology)

*Presenters:*

**Maria Paula Diogo** (NOVA School of Science and Technology, CIUHCT, Portugal) and **Ana Simões** (School of Sciences/University of Lisbon, CIUHCT, Portugal): Visualizing the British- Portuguese 1890 Imperial Technological Conflict: cartoons, railways, and power

**Ana Simões** (School of Sciences/University of Lisbon, CIUHCT, Portugal) and **Ana Matilde Sousa** (School of Fine Arts/University of Lisbon, CIEBA, Portugal): Depicting Empire, Globalization and Technologies of Use: the 1919 Total Solar Eclipse and the British expeditions to Sobral and Príncipe

**Lino Camprubi** (DEEPMED, University of Seville): Frontier Technologies: Knowledge and Things in the Territorialization of the World Ocean

### **S11: Perceiving Global Skies through Local Airspace: Transatlantic Insights**

*Evergreen, 4<sup>th</sup> floor*

Organizer and Chair: **Guillaume de Syon** (Albright College)

Commentator: **Nathalie Roseau** (École Nationale des Ponts et Chaussées (ENPC))

*Presenters:*

**Zacharie Boubli** (Conservatoire national des arts et métiers (CNAM)) - *ROBINSON PRIZE CANDIDATE*: French Imperial Airspace, from Early French Science-Fiction to Interwar Reality

**Catherine Radtka** (Conservatoire national des arts et métiers (CNAM)): From local surroundings to global phenomena, the Parisian sky as an indicator of technological and environmental change

**Olivier Pontreau** (FRAMESPA, University of Toulouse-Jean-Jaurès): Defining and Regulating Airspace, from Imperial Skies to the Global Sky

### **S12: Toward an Environmental and Material History of the Telegraph**

*Estherwood, 4<sup>th</sup> floor*

Organizer: **Sophie FitzMaurice** (University of California, Berkeley)

Chair: **James Schwoch** (Northwestern University)

*Presenters:*

**Gloria Calhoun** (Georgia Institute of Technology): Holding Up the Line: The Telegraph Pole as System Component (1830-1880)

**Sophie Fitz Maurice** (University of California, Berkeley) - *ROBINSON PRIZE CANDIDATE*: Telegraph Offices and Pole Yards as Sites of Labor, 1865–1900.

**Edmund Russell** (Carnegie Mellon University): The Pony Express was a Telegraph Service

### **S14: Technological Nation Building**

*Oakley, 4<sup>th</sup> floor*

Chair: **Richard Hirsh** (Virginia Tech)

*Presenters:*

**Alexandra Greco** (University of Georgia) - *ROBINSON PRIZE CANDIDATE*: A Begrudging Partnership: The Marconi Company & the British General Post Office

**Haris Durrani** (Princeton University, Department of History): The Recent History of Free Space: Patents, Satellites, and the Idea of Empire in the Global Cold War (*Not in Person, Pre-Recorded presentation*)

**Liliana Gil** (New School for Social Research) - *ROBINSON PRIZE CANDIDATE*: Tropical Factories: Histories of Tech Production in Manaus, 1960s-present

### **S15: Engineering in Latin America and Beyond (Edgewood, 4<sup>th</sup> floor**

Organizer: **Carlos Dimas** (University of Nevada Las Vegas)

Chair: **Sonia Robles** (University of Delaware)

Commentator: Bridget Chesterton (SUNY Buffalo State)

*Panelists:*

**Carlos Dimas** (University of Nevada Las Vegas): An Engineered Garden: Technocrats and the Construction of Hydrological Infrastructure in Early Twentieth-Century Northwestern Argentina

**Edward Beatty** (University of Notre Dame ): Engineers and Global Technological Networks



**Diana Montaña** (Washington University of St. Louis ): At Risk of Collapsing: The Hydraulic-fill and the Career of James D. Schuyler at the Necaxa

**Mark Healey** (University of Connecticut ): Engineering the Vineyard: Expertise, Water, and Infrastructure in the Making Of Argentina’s Wine Belt, 1884-1940

**S16: Freedom of Information in Tech History (Roundtable with participation from the Audience)**

*Bayside A, 4<sup>th</sup> floor*

Organizers and Chair: **Meg Jones** (Georgetown University) and **Danah Boyd** (Microsoft Research)

**S17: Imagining Technological Transformation (Oak Alley, 2<sup>nd</sup> floor**

Organizer: **David Burel** (Arizona State University): Imagining Mobile Cities

Commentator/Chair: **David Lucsko** (Auburn University)

Presenters:

**David Burel** (Arizona State University): Imagining Mobile Cities

**Valerie Adams** (Arizona State University): Intuitive Engineering: The Visionary Career of Igor Sikorsky

**Steven Wallace** (Auburn University): GPUs, Enthusiasts, and Technological Transformations

**Joel Webb** (Auburn University): The Iron Road to Redemption: Ghosts of Decline and Fantasies of Modernization in the Making of Spain’s Nineteenth-Century Railway

**Saturday 12 November 2022: 12:15PM – 1:45 PM – Lunch Sessions**

**EDITH Lunch Meeting** (Pre-Registration required)

*Bayside B, 4<sup>th</sup> floor*

**Mercurians & Jovians Lunch Meeting**

*External location*

**SMITInG lunch meeting**

*External location*

**Saturday 12 November 2022: 2:00 PM – 3:30 PM**

**S18: Global Histories of Technology: New Approaches and Initiatives (Pitches)**

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Organizer: **Liliane Hilaire-Perez** (University Paris Cité)

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

Commentators: **Francesca Bray** (University of Edinburgh) and **Alka Raman** (V&A Research Institute)

*The session provides the unique opportunity to gather scholars from two major international projects: the edited book *Global History of Techniques (19th–21st centuries)*, Guillaume Carnino (UTC Compiègne), Liliane Hilaire-Pérez (U Paris Cité/EHESS), Jérôme Lamy (CRNS) eds, Brepols, 2022, and the 10th Tensions of Europe Conference (2022), Stringed sessions “Global histories of Technology & the Environment: Current insights and future directions”, Jonas van der Straeten (TU Darmstadt), Evelien de Hoop (VU Amsterdam), Erik van der Vleuten (TU Eindhoven). These collective efforts account for a diversity of approaches that challenges both teleological narrative on progress and Eurocentric perspectives. The past few years have actually seen a number of important and exciting efforts at*

*non-Eurocentric, more inclusive and plural global histories of technology and the environment. We propose to enhance how research today explores the complex socioeconomic implications of techniques, as well as the systems of representations and power strategies that led to the emergence of our contemporary world. The purpose is decentring history of technology. In this perspective, a central question concerns the very category of the history of technology, What 'technology' means at a global scale? One major issue is to begin to analyze the impact of the globalization of the history of techniques on global history of techniques itself. While this field is increasingly globalized, the meaning of technology is more and more questioned by mobilizing a range of historiographical currents, in particular the contributions of French-speaking research for which history is tied to anthropology and ethnology, because 'la technique' embodies human activity as a whole. The proposed roundtable will discuss insights and experiences gained so far and what next steps could be envisioned—both in terms of multi-focal & multi-vocal historiographical content and inclusive ways to organize research.*

*Panelists:*

**Jonas van der Straeten** (Eindhoven University of Technology)

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

**Joris Mercelis** (Johns Hopkins University)

**David Pretel** (Univesitat Pompeu Fabra)

**Anaël Marrec** (University of Nantes)

**Dhruv Raina** (Jawaharlal Nehru University)

**S19: Interwar Technologies and the Transition to the Postwar Era**

*Oakley, 4<sup>th</sup> floor*

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

*Presenters:*

**Michael Meindl** (Radford University and Virginia Tech): Beyond the Aesthetic Machine: Uncovering the Network of Disney's Multiplane Camera

**Matthew Hersch** (Harvard University): Home Alive by '45: Repatriation Technologies of World War II

**Serkan Karas** (National and Kapodistrian University of Athens): Liberal in trade, loyal in mind: (tele)communication infrastructures and the imperial imaginaries of integration to the global order in Cyprus 1945-1959

**S20: Harnessing the Power of Energy History: A Roundtable Discussion**

*Evergreen, 4<sup>th</sup> floor*

Organizer and Chair: **Sarah Robey** (Idaho State University)

*Panelists:*

**Sarah Robey** (Idaho State University)

**Julie Cohn** (Center for Public History, University of Houston)

**Ian Miller** (Harvard University)

**Germán Vergara** (Georgia Institute of Technology)

**Jennifer Eaglin** (Ohio State University)

**Anto Mohsin** (Northwestern University in Qatar)

**S21: Plantation Afterlives: How Plantation and Colonial Logics have become Embedded in 20th-century Extractive Infrastructures**

*Bayside A, 4<sup>th</sup> floor*

Organizer and Chair: **Sam Hege** (Rutgers University-New Brunswick)

Panelists:

**Sam Hege** (Rutgers University-New Brunswick)

**Emmet von Stackelberg** (Rutgers University-New Brunswick)

**Israel Garcia Solares** (University of Notre Dame)

### **S22: Gender and Technology: The State of the Field**

*Rhythms III, 2<sup>nd</sup> floor + live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Organizer & Chair: **Donna Drucker** (Columbia University)

Commentator: **Laura Ann Twagira** (Wesleyan University)

*Panelists:*

**Donna Drucker** (Columbia University)

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

**Bo Ruberg** (University of California, Irvine)

**Kara Swanson** (Northeastern University)

**Theodora Dryer** (New York University)

**Charnell Chasten Long** (University of Wisconsin, Madison)

**Taylor M. Moore** (University of California, Santa Barbara)

### **S23: Necropolitics**

*Estherwood, 4<sup>th</sup> floor*

Chair: **Eda Kranakis** (University of Ottawa)

*Presenters:*

**Zhongxian Xiao** (Georgia Institute of technology): Building the semi-colonial space of death: public mortuary in modern Shanghai (1850s-1930s)

**Kat Poje** (Harvard University) - *ROBINSON PRIZE CANDIDATE*: The American Decompression Chamber Controversy; or, the Promise of a Technological Solution to an Ethical Issue (*probable recorded presentation*)

**Eric Schatzberg** (Georgia Institute of Technology): From Research to Social Change: Dissident Experts and Auto Safety

### **S24: New Histories of American Personal Computing**

*Gallier, 4<sup>th</sup> floor*

Organizer: **Laine Nooney** (New York University)

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

*Presenters:*

**Laine Nooney** (New York University): No Manual Required: Computing at Home with The Print Shop (1984)

**Danielle Shlomit Sofer** (University of Dayton): Seattle’s Musical & Racial Schism in the Time of Personal Computing

**Kevin Driscoll** (University of Virginia): User Supported: The Moral Rhetoric of Shareware

**Kat Brewster** (University of California, Irvine) - *ROBINSON PRIZE CANDIDATE*: SURVIVORS: Material AIDS Histories in Bulletin Board Systems and Personal Computing (1987-1990)

## **S25: Imagining Technological Transformation Part II**

*Oak Alley, 2nd floor*

Organizer and Chair: **David Burel** (Arizona State University):

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

*Presenters:*

**Juana Catalina Becerra Sandoval** (IBM Research): What’s in a Voice? Biometric Fetishization and Speaker Verification Technologies

**Victoria Harrison-Mirauer** (University of Cambridge): Electricity and Victorian Narratives of Progress; H.W. Hillman’s Electric Future

**Sarah Bell** (Michigan Technological University): The aX Factor: UX Dreams for Talking Machines

**Timo Myllyntaus** (Turku School of Economics): Reconstructing Finnish Electricity Supply with American Speed, 1940 – 1965

## **S26: Race and Biometrics**

*Edgewood, 4<sup>th</sup> floor*

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

*Presenters:*

**Carolyn Bailey** (Harvard University): - *ROBINSON PRIZE CANDIDATE* From Technics to Terror: Risk, Race, and CRISPR

**Michelle Spektor** (Massachusetts Institute of Technology): Quantifying the "National Physique": Deterioration, Degeneracy, and the Proposed British National Anthropometric Survey, 1904

**Kelcey Gibbons** (Massachusetts Institute of Technology): “Centering Blackness in Histories of Technology”

## **Saturday 12 November 2022: 4:00 PM – 5:30 PM**

### **S27: Bio/Medical Technologies**

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Chair: **Dick van Lente** (Erasmus University Rotterdam / Technology & Culture)

*Presenters:*

**Kyoryen Hwang** (Seoul National University - *ROBINSON PRIZE CANDIDATE*): “Strain for Research, Not for Production”: The Development of Typhoid Vaccine in South Korea, 1963-1993

**Chang Xu** (Washington University, St. Louis): Manufacturing Remedy for Ten Thousand Diseases: Ingot Medicines and the Making of the Early Qing Empire (1644-1800) (*Not in Person, Pre-Recorded presentation*)

**Yang Li** (Princeton University) - *ROBINSON PRIZE CANDIDATE*: Building North China Pharmaceutical Factory: Socialist Antibiotic Factory as a Hub of Technology Transfer in the Third World

**Yue Zhao** (Cornell University): Clocks of Life: Biorhythmic Technologies and Informational Bodies in China, 1980-2000

### **S28: Things Nuclear**

*Estherwood, 4<sup>th</sup> floor*

Chair: **Amy Bix** (Iowa State University)

*Presenters:*

**Kenzo Okuda** (Gifu College of Nursing): The Anglo-American “Special Relationship” during WWII to the early Cold War: Influentials' Successful Nuclear Strategy toward Japan

**Yeseul Park** (Seoul National University) - *ROBINSON PRIZE CANDIDATE*: Techno-nationalism and the Nuclear Fuel Development Project in South Korea, 1976–1989

**Siegfried Evens** (KTH Royal Institute of Technology) - *ROBINSON PRIZE CANDIDATE*: “It is going to crack like a piece of glass”: The Nuclear and Non-Nuclear Governance of Pressure Vessels in Nuclear Power Plants

### **S29: Technological Transnationalisms**

*Edgewood, 4<sup>th</sup> floor*

Chair: **Henk-Jan Dekker** (Eindhoven University of Technology/Foundation for the History of Technology)

*Presenters:*

**Zohar Sapir Dvir** (Tel Aviv University ): Colonialism by Car: Automobility, Technology, and Empire in the Interwar French Mediterranean

**Kapil Patil** (Friedrich-Alexander University of Erlangen-Nuremberg ): The organisation of Defence Industrial Production and Military Research in India, 1935-1962

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

### **S30: Digital Origins**

*Oakley, 4<sup>th</sup> floor*

Chair: **Laine Nooney** (New York University)

*Presenters:*

**Yijun Sun** (University of Massachusetts Amherst): On the Glass Envelop Technology: From the Light Bulb to the Vacuum Tube

**Jeffrey Binder** (Pennsylvania State University): AI and Standardized Testing: From Imitation to Scoring

**Chen-Pang Yeang** (University of Toronto): CFido BBS and the Beginning of China's IT Industry

**Mark Chen** (Harvard University): Reckoning with Machines: The Japanese Abacus and Mechanical Calculation

### **S31: Children & Technology: A State of the Field Roundtable**

*Gallier, 4<sup>th</sup> floor*

Organizer: **Hannah Zeavin** (UC Berkeley) and **Morgan Ames** (UC Berkeley)

Chair: **Matt Wisnioski** (Virginia Tech)

*Panelists:*

**Meredith Bak** (Rutgers University)

**Victoria Cain** (Northeastern University)

**Helle Strandgaard** (Aarhus University) (*Not in Person, recorded presentation*)

**Veronica Barassi** (University of St.Gallen) (NIP)

### **S32: Early Career Workshop Session #4**

*Rhythms III, 2<sup>nd</sup> floor + live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

Organizer: **Early Career Interest Group (ECIG)**

Chair: **N. Bucky Stanton** and **Jason Ludwig** (SHOT ECIG Representatives)

*Presenters:*

**Meghan Shea** (Stanford University): From Encounters to Environmental DNA: The Stakes of Changing Evidentiary Forms in Intertidal Research

**Basit Abubakr** (Jawaharlal Nehru University): Race, Labour and Imaginaries of Development: Comparative histories of Jhelum Valley Electric Scheme and Sindh Valley Electric Scheme

**Karlynnne Ejercito** (University of Southern California): American Welfare Capitalism in the Philippines and the Technologization of Informal Empire

**Amanda Arceneaux**: "Where did the Medicine Go? Technologies of Knowledge Infrastructures in Early Modern Herbals

## **Saturday 12 November 2022: 5:30 PM – 7:45 PM – SHOT Awards and Fellowships Event 2022**

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**5:30PM-6:30PM: SHOT Awards & Fellowships Reception**

*Waterbury, 2<sup>nd</sup> floor*

**6:30 PM–7:15 PM: Presentation SHOT Award and Fellowship Winners**

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning – [LINK TO ONLINE MEETING ROOM](#)*

**7:15 PM–7:45 PM: SHOT Leonardo da Vinci Lecture 2022 by Donald MacKenzie**

*Rhythms I, 2<sup>nd</sup> floor, live streaming with closed captioning - [LINK TO ONLINE MEETING ROOM](#)*



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# SUNDAY 13 November 2022

## **SIGCIS Sunday Conference** *(Pre-Registration required)*

**8:30 AM – Noon: SIGCIS Registration Desk**

*Bayside Foyer, 4<sup>th</sup> floor*

**8:30 AM – 9:00 AM: SIGCIS Breakfast**

*Bayside A and Foyer*

**9:00 AM – 5:00 PM: Plenary and breakout SIGCIS Session**

- **Plenary Opening:** *Bayside C, 4<sup>th</sup> floor*
- **Breakout Rooms:** *Bayside B, 4<sup>th</sup> floor, Bayside C, 4<sup>th</sup> floor, Edgewood, 4<sup>th</sup> floor*
- **SIGCIS Lunch:** *Bayside A and Foyer*

## **SHOT Special Interest Groups Sunday Meetings**

**9:00 AM – Noon: Albatrosses Sunday Morning Meeting**

*Gallier, 4<sup>th</sup> floor*

*The Albatrosses Sunday Meeting will hear a presentation by the Sacknoff Prize winner in space history, Samuel Goldberg, followed by updates from the attendees about any news and the state of their research. Members may want to meet informally for breakfast in the hotel restaurant beforehand or bring their own.*

~~**9:00 AM – Noon: Asia Sunday Network Sunday Morning Meeting**~~

~~*Oakley, 4<sup>th</sup> floor*~~

**9:00 AM – Noon: Prometheans Sunday Morning Meeting**

*Estherwood, 4<sup>th</sup> floor*

**9:00 AM – Noon: EDITH and WITH Sunday Morning Workshop**

*Oak Alley, 2<sup>nd</sup> floor*