

The Hecna



In Romanian, the *hecna* is a capstan made of wooden slats and osiers. Moved generally by means of a horse, it was used to lower and raise men and tools in the petroleum hand dug wells of Romania from the Middle Ages until early 20th century. This device was more effective than the manual winch commonly used in the other European petroleum fields. The utilization of pack animals made possible to move heavier loads at faster speeds.

Hecna explained: <https://youtu.be/unRb2vhq-IY>

Newsletter of the International Committee for the History of Technology - ICOHTEC

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I. ICOHTEC

I.1 DIGITAL ICOHTEC SYMPOSIUM, 15-17 JULY 2020: SYMPOSIUM NEWS UPDATE



Conference website: <https://icohtec2020eindhoven.org/>

Dear ICOHTEC Digital Participants,

We are looking forward to meeting you this week in our virtual meeting rooms. This will be a new, hopefully inspiring experience for ICOHTEC. This virtual symposium is the result of the synergy, cooperation, spirit of “adaptability” and a great sense of colleagues agreement in achieving the common goal of the Program Committee, the local Eindhoven organizing team, the ICOHTEC Officers and Executive Committee, and all scholars that were prepared to join us in this virtual experiment. So, it is truly a joint effort, thank you all for this!

In case you have any questions, don't hesitate to contact the organizers. For technical questions please contact sht@tue.nl; for content-related questions please contact me by poser@hsu-hh.de. We wish you a pleasant, inspiring, and fruitful meeting! And, we hope to meet you in reality next year!

Sławomir Łotysz

President of ICOHTEC

Stefan Poser

ICOHTEC Secretary General and Chair of the Program Committee 2020

Erik van der Vleuten (Eindhoven University of Technology)

Jan Korsten (Foundation for the History of Technology)

On behalf of the Local Organizing Team

Symposium Program

The symposium program is now available online on the [conference website](#). A PDF version of the program including all abstracts can be downloaded. Last minute possible program changes will be posted online and will be e-mailed to you all.

Password protected part website as central meeting hub

The conference website is the central hub of the symposium. All registered participants and attendees will receive an e-mail containing login details for the password protected part of the website. **You will receive this e-mail Monday 13 July 2020.** With the link in the e-mail you will be able to select your own password. With the password you can enter the password protected part of the website.

There you will find for every session the link to the meeting room. Please note that the links only work on the dates/times specified in the program. Hosts will be present then to let people in. The host will also open the room 20 minutes before a session to let the organizer, chair and panelists in.

Zoom

We will be using Zoom as our meeting platform. Zoom is easy to use, just click on the link to a session and follow the instructions. On the conference website and below we will post links to instruction videos to get you more acquainted with Zoom. You can find Zoom's quick start guide here: <https://support.zoom.us/hc/en-us/articles/360034967471-Quick-start-guide-for-new-users>

Prerecorded material

Panelists can send prerecorded material (videos, PowerPoint presentations) to the symposium organizers to make sure that it will be available in the digital meeting room. Prerecorded material should be available Tuesday 14 July at 5.00 PM the latest. It is of course possible to present live and share a PowerPoint via the Share Screen option. This will be arranged by the host of the meeting.

Call for papers ICON

Panelists are encouraged to submit manuscripts based on the conference papers to ICOHTEC's peer-reviewed journal, *ICON* (<http://www.icohtec.org/icon/>). This year, *ICON* is looking for papers for a special issue (to be published in July 2021) on history of technology for an age of crisis. Please consider contributing your paper for this special issue!

ICON, the now bi-annual journal of ICOHTEC, publishes papers covering all aspects and periods in the history of technology, but devotes special attention to the discussion of contemporary problems of technology in their socio-economic and cultural settings. The journal's goal is to foster scholarship by providing timely review and circulation of ideas to an international audience.

The journal publishes research articles, essays, review essays and book reviews on all aspects of technological history. It publishes manuscripts by both members and nonmembers. Authors are given editorial assistance to improve the clarity and vigor of their written expression (especially if English is not their first language).

Articles appearing in *ICON* are included in SCOPUS, America: History and Life, Current abstracts, Francis, Historical abstracts, PubMed, TOC premier, listed in the European Reference Index for the Humanities and are available via JSTOR. Please send your manuscripts (paper plus abstract) to the editor at editor@icohtec.org.

I.2 DIGITAL ICOHTEC SYMPOSIUM, 15-17 JULY 2020: ATTENDEE REGISTRATION

If you are interested to visit ICOHTEC digital as attendee (without giving a paper), the registration form is open @ <https://icohtec2020eindhoven.org/registration/> until the beginning of the conference. Regular fee for attendees is **25 Euro**. ICOHTEC members attending our digital symposium as attendee (also entitled to join the Annual General Assembly) will pay the **10 Euro** reduced fee.

Special “Friend Institutions” reduced fee of **15 Euro** has been agreed with a number of societies involved in the Technology History. This is in acknowledgment of the common effort, work, scholarship, passion for the discipline that every historian in the world is granting to our community with the ultimate finality of achieving the best scholarship possible. ICOHTEC wants to be an open multicultural, transnational and cross-disciplinary point of gathering where fellow colleagues are welcome to dialog, listen, learn, share, and express their historical voice.

Going digital, we want to offer different formats of presentation, including options for pre-circulation or uploading additional information about your paper before the symposium. Pre-recorded papers are possible as well as live presentations (recommended). Concerning the sessions, we offer the normal slots of 90 minutes for 3 or 4 lectures - 20 min presentation + 10 min discussion in case of 3 panelists; 15 min presentation + 10 min discussion in case of 4 panelists. You are welcome to give shorter papers and to extend the discussion time, but we recommend papers of at least 10-minute length. For technical questions please contact our local organizers by sht@tue.nl; for content-related questions please contact me by poser@hsu-hh.de.

Best wishes
Sławomir Łotysz
The President of ICOHTEC

Stefan Poser
Secretary General of ICOHTEC
Chair of the Program Committee

Jan Korsten and Erik van der Vleuten
On behalf of the Local Organizing Committee

Francesco Gerali
Newsletter Editor of ICOHTEC
Member of the Program Committee

ICOHTEC 2020 DIGITAL, 15-17 JULY 2020
SESSIONS

15-07-2020 > 2:00 PM–3:30 PM SESSION BLOCK 1 (4 PARALLEL SESSIONS)

1.1 DISABILITY / BODY / HISTORY OF TECHNOLOGY – REPRESENTATIONS

Organizer: Magdalena Zdrodowska

Chair: Jan Hadlaw

Commentator: Donna Drucker

ANDREA BERGER AND SOPHIE GERBER

Technology, Bodies and Norms on Display

MARIA GALMARINI-KABALA

Blindness, Technology, and Cold War Cooperation

EVELINA TWARDOCH-RAS

Dis / emancipatory Power of Medical Imaging Technology? Somatic narratives about ‘body in crisis’ in bioartistic projects

MONIKA BAÁR

Displacement, Crisis, Disabled Bodies and Makeshift Devices

1.2 CONSTANT CRISIS? GOVERNING URBAN MOBILITY CHALLENGES

Organizer: Martin Emanuel

Chair: Ruth Oldenziel

SUE-YEN, TJONG TJIN TAI

Singapore rickshaws, 1880-1940: Struggles to control privately run transport for the public

MARIA LUÍSA SOUSA

Solving a ‘crisis’ and creating a new: Parkways as a tool in turning Lisbon’s compact city into urban sprawl, 1930s–1940s

MARTIN EMANUEL

Helping or controlling walking? Pedestrian activation of traffic signals in Stockholm, 1950s

HENK-JAN DEKKER

Cycling in crisis? Safety, cycling and social movements in the Netherlands, 1970s

1.3 RESISTANCE AGAINST TECHNOLOGY

Chair: Dick van Lente

DOUWE SCHIPPER

“Government Is Not Created to Serve Experts”: The Baltimore Highway Revolt as Resistance against a Technopolitical Regime

FLORIAN BETTEL

Police, Technology and the Commodification of Protest

DISKUSSION

1.4 ENERGY AND THE ENVIRONMENT

Organizer and Chair: Anthony N. Stranges

ANTHONY N. STRANGES

Pioneering Studies on Acid Rain

PETTER WULFF

The Climate Legacy of Arrhenius

ELENA HELEREA

Evolution of Energy Technologies

15-07-2020 > 4:00 PM–5:30 PM SESSION BLOCK 2 (4 PARALLEL SESSIONS)

2.1 DISABILITY / BODY / HISTORY OF TECHNOLOGY – PROTHESES

Organizer: Magdalena Zdrodowska

Chair: Slawomir Lotysz

Commentator: Donna Drucker

MAGDALENA ZDRODOWSKA

Martial Law, Propaganda and Sign Language. Unexpected benefits of the 1981 political crisis for television accessibility in communist Poland

ROMAN ARTEMENKO

Art, Science, and Medicine: History of Biomechanical Prosthetic in USSR

MARCIN STASIAK

Objects, Agency, Dis/continuity – Orthopaedic Devices in Biographies of People with Polio-Related Impairments in Poland (1946-2015)

2.2 TOOLS TO GENERATE OR TO SOLVE CRISES? HISTORY AND PERSPECTIVES OF THE DEVELOPMENT OF ROBOTS AND ARTIFICIAL INTELLIGENCE I

Organizer: Stefan Poser

DICK VAN LENTE

Nothing New from the Robot's front? Predictions of Automation in the Nineteen Fifties and Recent Times

LISA NOCKS

No Way to Treat a Robot: Ethical Challenges for the Coming Human/Humanoid Environment

STEFAN POSER

Fascinating Scary Smiling: Robots and Emotions

2.3 CRISIS FOR WHOM? STRUCTURAL CHANGES

Organizer: Thomas Schütz, Nicolai Ingenerf

NICOLAI INGENERF

Downwards – a Way out of the Crisis? The modernization of the West German coal industry in the 1970s

THOMAS SCHÜTZ

The Disappearance of Watches, „Made in Germany”

KATHARINA STOLZ

The Partial Revival of the German Watch Industry after 1990

2.4 TECHNOLOGY AND CRISES – MIRRORED BY MEDIA I

Chair: Kamna Tiwary

HUGO PEREIRA

Harbinger of Progress: Portuguese illustrated journal O Occidente and the imagery of technology and engineering (1878-1899)

YIANNIS KOKKINAKIS

Public Health, TV series and biopolitics in an age of crisis

JEFF DONISON

“The Overlooked and the Misunderstood”: Exploring Alternative Narratives to Technological Crises in Malcolm Gladwell’s Revisionist History Podcast

16-07-2020 > 1:00 PM–2:30 PM SESSION BLOCK 3 (4 PARALLEL SESSIONS)

3.1 TOOLS TO GENERATE OR TO SOLVE CRISES? HISTORY AND PERSPECTIVES OF THE DEVELOPMENT OF ROBOTS AND ARTIFICIAL INTELLIGENCE II

Organizer: Stefan Poser

TIINA MÄNNISTÖ-FUNK

Talking machines negotiating the role of technology

ARISTOTLE TYMPAS, GIORGOS ZOUKAS, KOSTAS SAKALIS

Shifting public discourses on artificial intelligence and robotics amidst crisis: From the ‘postindustrial society’ (1970s) to the 4th Industrial Revolution (2010s)

3.2 CRISIS IMAGINARIES AND TECHNOLOGICAL PASTS

Organizer: Anique Hommels

Chair: Anna Åberg

KARENA KALMBACH

Crisis Imaginaries and Fears as Driver of Technology Development

GINEVRA SANVITALE

Imagined Computer Futures. Fear, Technology and Politics in Italian Socio-Technical Imaginaries (1970s–1990s)

ANIQUE HOMMELS

The co-construction of crises and technology in emergency dispatch rooms in the Netherlands (1970s-2000)

HUGH RICHARD SLOTTEN

Cold War Crisis Imaginaries, Global Satellite Communications, and Regional Sociotechnical Visions

3.3 TECHNOLOGIES OF RISK RESPONSE

Chair: Thomas Schütz

FANXIANG MIN

Change was Made for British Noses – The story of London Sewer system in the perspective of sensory history

JAN HENNING

Sirens in the City: Technologies of Risk Response

HAILIAN CHEN

Technology as a Solution for Saving China's Last Empire: Reforms of Educating New Elites and Commoners in the Late Nineteenth Century

DANIELLE SHANLEY

Singing from a Different Song Sheet: Competing Visions of Technology Assessment in the 1960s and 1970s

3.4 CRISES AND ENERGY SYSTEMS I

Chair: Francesco Gerali

CYRIL LACHEZE

French Tileries Facing the Wood Crisis, from the Late Middle Ages to the 19th Century. Adaptation, innovation, opportunities

MARCIN KRASNODEBSKI

The Phantom Menace of an Oil Crisis and the New Hope of Forest Fuels: the gasifier technology in the interwar France (1918-1939)

CHRISTOS KARAMPATOS, SPYROS TZOKAS, GIORGOS VELEGRAKIS

A Constant Remedy for Successive Crises: Instances of Oil Exploration, Oil Narratives and the Emergence of Oil Experts in Greece

16-07-2020 > 3:00 PM-4:30 PM SESSION BLOCK 4 (5 PARALLEL SESSIONS)

4.1 CRISES, TECHNOLOGY AND SOCIETY I

Chair: Jacopo Pessina

ANDREW BUTRICA

"The 'Social Question' and Industrialization in France, 1800-1850"

LUDOVIT HALLON, MICHAL DURCO, MIROSLAV SABOL

The Great Depression and its Impact on Infrastructure Development in 1930s Slovakia

MARIANA CĂTĂLINA CREȚU

The Crisis of the Communist Regime in Romania

4.2 TECHNOLOGY AND THE BODY

Chair: Hermione Giffard

KATERINA VLANTONI

Ensuring the Safety of the Blood Supply Technology during Crises: A historical approach

DONNA DRUCKER

The Diaphragm in the City: Contraceptive Research at the Birth Control Clinical Research Bureau, 1925-1939.

YOUNGJU LEE

New Forms of Nurture for a New Nation: Conflicts over Contraceptives in South Korea, 1970-1990

4.3 TECHNOLOGIES AND INDUSTRIAL SECTORS IN TRANSITION I

Chair: Maria Elvira Callapez

ERNST HOMBURG

Historical Transitions in the Chemical Industry, 1750-1980

ELENA KOCHETKOVA

Milk and Meat under Soviet State Socialism: Technologies of production and challenges of modernity, 1960s-1980s

ANNA PETROVA

“Quality” in Soviet Textile Production and Consumption: the distribution of working clothes in 1950s-1960s of the 20th century

JELENA KNEZEVIC

The Technofuture is Female? Women in Information Technology in the Czech Republic

4.4 TRANSNATIONAL HISTORIES OF MATERIAL FLOWS I

Organizer: Frank Veraart, Stathis Arapostathis

ROBRECHT DECLERCQ

Natural Resource Companies and Copper Mining (1900-1960): the mining industry as an industrial metabolism

STATHIS ARAPOSTATHIS AND SOTIRIOS ALEXAKIS

Agrochemicals, Extractions and Natural Resources Management in the Greek Agrifood Industry, 1920-2000

FRANK VERAART

Catalyzing Resilience – Increasing Insecurity Diversifying and globalising feedstock of Dutch margarine and soap producers

4.5 SHAPING AND DEVASTING THE ENVIRONMENT

Chair: Yoel Bergman

LEONOOR ZUIDERVEEN BORGESIUŠ

Infrastructures of empty space and productive space in the Netherlands and Surinam, 1870-1905

SLAWOMIR ŁOTYSZ

“If there was a sea instead of Russia...” Technical and political aspects of reclaiming the Pripet Marshes in interwar Poland

ANJA WESTERMANN

Barrier or Bridge? – Post-war water resource development at the Lower Mekong River Basin

RICHARD KOVER

Of Bitumen and Brobdingagian Technology: The Technological sublimity of Manufactured Canadian Crudeen and Brodi

16-07-2020 > 5:00 PM–6:30 PM PLANARY ROUND TABLE A HISTORY OF TECHNOLOGY FOR AN AGE OF CRISIS

Chair: Erik van der Vleuten

16-07-2020 > 7:00 PM–8:30 PM SESSION BLOCK 5 (4 PARALLEL SESSIONS)

5.1 CRISES, TECHNOLOGY AND SOCIETY II

Chair: Jan Hadlaw

MATTHEW SCHANDLER

"Atari Democrats" and the Outsourcing Solution to American Industrial Decline, 1983-1985

W BERNARD CARLSON

Stabilizing the Videotape Crisis of the 1980s

THOMAS LAND

The 'Discovery' of Social Innovations as Means for the Solution of the Crisis in the 1970s and 1980s in West-Germany

5.2 WOMEN IN TECHNOLOGY IN AN AGE OF CRISIS

Organizer: Maria da Luz Sampiao

Chair: Antoni Rocca-Rosell

MARIA DA LUZ SAMPIAO

Women Graduated in Engineering: their social and professional options

MARISOL OSORÍO CÁRDENAS AND BEATRIZ GARCÉS BELTRAN

Female Pioneers in Engineering in Colombia

MARÍA DEL PAZ RAMOS LARA

Pioneers: Mexican Women in Chemistry

5.3 TECHNOLOGY AND CRISES – MIRRORED BY MEDIA II

Chair: Magdalena Zdrodowska

VALERY V. SHILOV, SERGEY A. SILANTIEV

How myths are born: John V. Atanasoff, Mikhail Kravchuk and Sergey Lebedev

CATHERINE COYLE

The Dead Media Project: Paleontologies of Media During the Digital Revolution

KAMNA TIWARY

The Post Truth Crisis

5.4 MILITARY TECHNOLOGY I

Chair: Michael Neufeld

JACOPO PESSINA

Small Firearms and Soldiers' Training in the Sixteenth-Century Europe

JORIT WINTJES

"Stick 'em with the pointy end!" – Lashing ancient naval tactics to ironclad age technology

MARION WECKERLE

World War One and Innovation in Technological Weapons. Seaplanes as an aircraft case study

17-07-2020 > 1:00 PM–2:30 PM SESSION BLOCK 6 (5 PARALLEL SESSIONS)

6.1 ROUND TABLE "PLASTICS AND THEIR CONTROVERSIES"

Organizer and moderator: Maria Elvira Callapez

Participants:

TOM FISHER

DAMLA TONUUK

CAROLIEN ADRIAANSCHÉ

6.2 TECHNOLOGY, SOCIETY, AND RELIGION

Chair: Thomas Schütz

VALENTINA LIMINA

Technology to Save the Empire: Remedies to Late Antique 'Crisis'

CARLO BOVOLO

Catholic Attitudes towards Technological Progress in 19th Century Italy

SELIN KARA

Science, Technology and Islam in Ottomans – Creating an Alternative Narrative against the Orientalist One

6.3 CONSTRUCTION METHODS AND MANAGING THE BUILT ENVIRONMENT

Chair: Stefan Poser

VLADIMIR KORENSKY

Introduction of a New Reinforced Concrete Construction Method in Russian Empire

TRACY MOIR-MCCLEAN

Mobile Villages, 1941-1955, The Technology of temporary communities at TVA construction site

JONAS VAN DER STRAETEN

Making Socialism Fit. Cultures of rebuilding and renovating houses in Samarkand, Uzbekistan, ca. 1960-1992

6.4 ASPECTS OF MOBILITY I

Chair: Donna Drucker

XINYUE LI

The Role of Horse Carts Played in Widening the Urban-rural Gap: Tianjin 1949-1965

NATHAN CARDON

Race, Technology, and Bicycle Mobilities in the Jim Crow South

MARYA MCQUIRTER

Bicycles & the Racial Capitalocene

6.5 CRISES AND ENERGY SYSTEMS II

Chair: Roman Artemenko

FRANCESCO GERALI

The Search for Dark Spots. Early development of the Carottage Électrique (1910-1930)

ANNA AGAFONOVA

Electrification and Energy Crisis: a case of Cherepovets, 1910 - 1940s

ERKI TAMMIKSAAR

Progress through Regress: The paradoxical effects of World War II on the Estonian energy system

17-07-2020 > 3:00 PM–4:30 PM SESSION BLOCK 7 (4 PARALLEL SESSIONS)

7.1 TRANSNATIONAL HISTORIES OF MATERIAL FLOWS II

Organizer: Frank Veraart, Stathis Arapostathis

Commentator: Anna Aberg

SERKAN KARAS

Turkey's Becoming 'Global Plastic Waste Bin': Neoliberal Transformation, Infrastructure and Plastic Value Chains 1970-2019

ANWESHA BORTHAKUR

Transboundary movement of electronic waste: The toxic trade, informal recycling, material flow, policy gap etc.

7.2 ASPECTS OF MOBILITY II

Chair: Donna Drucker

KATARZYNA PIETRZAK

The Beginnings of Passenger Lifts Technology in Poland

SOFIA-ALEXIA PAPAFAEIROPOULOU

Automobility and sustainability. An incompatible relation?

THOMAS IRMER

Between Disruption and Innovation? - A comparison between the introduction and the return of the electric car in Berlin

LAURA MENEGHELLO

Pneumatic Tubes as “Sustainable” Infrastructure in the 21st Century

7.3 MILITARY TECHNOLOGY II

Chair: Michael Neufeld

LAURENCE BURKE

What Kind of Man? Notions of Masculinity in Early Military Aviation

YOEL BERGMAN

The Odd Gun Propellant: M26 and Its Relevance to Technology and History

7.5 CRISES AND ENERGY SYSTEMS III

Chair: Francesco Gerali

ACHIM KLÜPPELBERG

Combining Old Hydrological And New Nuclear Tradition. Energy complexes as the solution to Soviet electricity scarcity

SIEGFRIED EVENS

Water as Nuclear's Reverse Salient

JEAN GECIT

Solar Energy, a Remedy for Environmental Crises in West Africa (1960-1971)

I.4 DIGITAL ICOHTEC SYMPOSIUM, 15-17 JULY 2020: GENERAL ASSEMBLY IN THE DIGITAL SPACE 2020

**Friday, 17 July 2020, 7:00 PM– 8:30 PM (CEST) – access via online platform of the symposium
Invitation and Agenda**

Dear Members of ICOHTEC,

It will be a pleasure to meet you soon and to discuss ICOHTEC's development together. Since we will meet digital for the first time, it will be interesting to analyse the results of this symposium together. I would like to propose this discussion as main topic of the GA 2020.

Please find a proposal of our agenda.

Best wishes

Stefan Poser

Agenda

1. Appointing a recording secretary
2. Accepting agenda of the GA
3. GA minutes of 2019
4. Elections of three new members of the Executive Committee
- 5. Results of the first Digital Symposium of ICOHTEC**
6. Questions concerning the reports of the officers and committees of ICOHTEC
7. Annual Fees
8. Preparing our next symposia
9. ICON journal
10. Perspectives of ICOHTEC
11. Different topics

Stefan Poser, Secretary General

Karlsruher Institut für Technologie, KIT, stefan.poser@kit.edu

I.5 TURRIANO-ICOHTEC BOOK PRIZE 2020 – REPORT OF THE COMMITTEE

Members of the Turriano-ICOHTEC Book Prize Committee 2020 were Irina Gouzevitch (Paris), Per Lundin (Gothenburg), Darina Martykánová (Madrid), Klaus Staubermann (Berlin), and Ernst Homburg (Maastricht), chairperson. The Committee received no less than 20 applications, many of a high standard. As a result, the competition between the candidates was strong. We received 20 applications: 9 in English, 4 in French, 4 in Spanish and 3 in German from 14 different countries, as the following table shows:

Applications for the Turriano Prize (in alphabetic order).

Author	Title of PhD Dissertation or Book	Language	Country of Residence	Institution
Benjamin Bothereau	À la lanterne! Modes d'existence d'un objet banal, entre imaginaire technique et politique. Invention, économie urbaine, publics et circulations du "réverbère", Paris, Barcelona, XVIIIe siècle	French	France	Centre de Recherches Historiques, Paris
Aurélie Brayet	Un frigidaire et nous serons heureux! Histoire technique et culturelle du réfrigérateur	French	France	Université Jean Monnet de Saint-Étienne
Patricia Andrea Dosio	Artífices eruditos. La circulación de saberes técnicos y pensamiento	Spanish	Argentina	Universidad de Palermo

	moderno a través de la actividad de la elite de artesanos en Buenos Aires (1776-1835).			
Lukas Engelmann and Christos Lynteris	Sulphuric Utopias. A History of Maritime Fumigation	English	UK	The University of Edinburgh / University of St Andrews
Bolivia Erazo Villacres	How Sound Cinema Arrived in Ecuador: Case Study of Quito in the Late 1920s and Early 1930	English	Finland	Helsinki
Johan Gärdebo	Environing Technology: Swedish Satelite Remote Sensing in the Making of Environment 1969-2001	English	Sweden	KTH Royal Institute of Technology, Stocholm
Robert Groß	Die Beschleunigung der Berge: Eine Umweltgeschichte des Wintertourismus in Voralberg/ Österreich (1920-2010)	German	Austria	Innsbruck University
Lucía Jimena Juárez	Trading Nations: Architecture, Informal Empire, and the Scottish Cast Iron Industry in Argentina	English	UK	University of Edinburgh
Claas Kirchhelle	Pyrrhic Progress: The History of Antibiotics in Anglo-American Food Production	English	Ireland	University College Dublin
Clemens M. Knobling	Münchner Dachwerke	German	Switzerland	ETH Zürich
Christoffer Leber	Arbeit am Welträtsel: Religion und Säkularität in der Monismusbewegung um 1900	German	Germany	Ludwig-Maximilians-Universität Munich
Will Mari	A Short History of Disruptive Journalism Technologies 1960-1990	English	USA	Louisiana State University, Baton Rouge
Sophie Omère	Hydraulique somptuaire et transferts techniques vers l'Espagne aux XVIIIe siècle: l'activité des fontainiers français dans	French	France	Lyon

	les jardins de La Granja de San Ildefonso			
Víctor Pérez Álvarez	Técnica y fe: el reloj medieval de la catedral de Toledo	Spanish	UK	Scientific Instrument Society; Edgware, Middlesex
Rachel Plotnick	Power Button: A History of Pleasure, Panic, and the Politics of Pushing	English	USA	Indiana University Bloomington
Vicente Ruiz García	Los Arsenales del Rey: Ciencia, tecnología e industria bajo el espíritu de la Ilustración	Spanish	Spain	IES San Juan de la Cruz, Úbeda (Jaén)
María Carolina Sanhueza Benavente.	Por los caminos del Valle Central de Chile: el sistema vial entre los ríos Maipo y Mataquito (1790-1860)	Spanish	Chile	Pontificia Universidad Católica de Chile, Santiago de Chile
Nicolas Simoncini	Histoire de la recherche sur les piles à combustible en France des années soixante aux années quatre-vingt	French	France	Université de Technologie de Belfort-Montbéliard
Heidi Tworek	News from Germany: The Competition to Control World Communications, 1900-1945	English	Canada	University of British Columbia, Vancouver
Sara Venditti	New Wings for Europe: Western European Strategic Cooperation and Integration in the Aerospace Field: Ariane and Eurofighter, 1973-1985	English	Italy	LUISS Guido Carli, Rome

In its selection procedure, the Turriano Prize Committee 2020 took several aspects into consideration:

- whether a dissertation was defended in 2018 or 2019, and whether a book was published in 2018 or 2019?
- whether the candidate was an early scholar, or not?
- whether the study submitted was indeed (mainly) in the field of history?
- whether the study was bringing novel aspects or approaches to the field of history of technology?
- we gave priority to studies on history of technology over contributions to the history of science (or other fields related to technology, for that matter).
- and, last but not least, we looked at the quality, novelty, importance and relevance of the study.

In a first round we rejected 5 submissions on formal grounds (book/ PhD not from 2018 or 2019; or not being an early career product), and/or because of the fact that the field of 'history of technology' played too marginal a role in the book. This left us with 15 titles to evaluate.

During the 2nd round 5 titles were selected as potential Prize winners from the 15 titles studied. In a third round the 5 remaining titles were studied in more detail by members of our Committee.

On the basis of that multi-procedure, the Turriano Prize Committee 2020 decided to grant the 2020 Turriano Prize to two authors who both wrote superb studies, that both were excellent in different ways:

- Claas Kirchhelle for his book *Pyrrhic Progress: The History of Antibiotics in Anglo-American Food Production*; and

- Nicolas Simoncini for his PhD thesis *Histoire de la recherche sur les piles à combustible en France des années soixante aux années quatre-vingt*.

Moreover, we awarded an 'Honorable mention' to Lucía Jimena Juárez for her excellent contribution to the field of Industrial Heritage Studies with her PhD thesis: *Trading Nations: Architecture, Informal Empire, and the Scottish Cast Iron Industry in Argentina*.

Below we will present some of the highlights of these three remarkable books.

Winners:

Claas Kirchhelle, *Pyrrhic Progress: The History of Antibiotics in Anglo-American Food Production*. (New Brunswick: Rutgers University Press, 2020) (published December 2019).

This is a well-argued, well-written and thoroughly researched book on a very important subject, non-human antibiotic use. More precisely Kirchhelle studies antibiotic use, regulation and resistance in US and Britain during the postwar period. He highlights the dilemma of increasing use of antibiotics, short-term benefits, long-term hazards. He reveals the scale and rapid growth of the use of antibiotics and the decisive role it has played in food production. The discovery of resistant bacteria's created different responses, Europe and US took different paths. Kirchhelle emphasizes the complexity and conflicting interests that came to characterize use, responses and countermeasures. Throughout the book the use of theory and the study of historical developments are well integrated, but in a rather implicit way. This makes the book more readable, and in the wonderful concluding section all lines of argumentation come together. There the author emphasizes four stories: one of short-termism, one of epistemic fragmentation, one of infrastructure and one of narrow reform.

His results are novel, well-founded and important. Kirchhelle's study can be situated in the intersection of history of technology, history of agriculture, history of medicine and history of science, which only shows how entangled agriculture, technology and science have become during the twentieth century. They cannot be separated from each other. Also food production and antibiotics must be seen as topics relevant for the history of technology.

Apart from these intellectual merits, Kirchhelle's study of the antibiotics dilemma is also highly relevant for politics and society. The use of antibiotics has profound and unsettling ramifications and consequences. In his conclusions Kirchhelle is able to highlight and identify interesting and highly relevant themes and generalizations.

Nicolas Simoncini, *Histoire de la recherche sur les piles à combustible en France des années soixante aux années quatre-vingt*, PhD thesis, Université de Technologie de Belfort-Montbéliard, December 2018.

Also Nicolas Simoncini's dissertation is a very solid, though-provoking, and multifaceted work. The analysis concerns the techno-scientific, economic and political context of the production and implementation of fuel cells in France, between about 1960 and 1981. The strength of Simoncini's thesis is that he clarifies the various ways in which the production and use of fuel cells – or its non-use – are embedded in the very specific French circumstances, in terms of politics (with obvious international contextualization), industrial production and also techno-scientific networks. The study is well focused as far as the core topic, fuel cells, is concerned, but at the same time broad enough to highlight the relations with the political, industrial and scientific environment. It is a well-balanced and well-structured study at the interface of history of technology, history of science, business history and political history, using concepts from STS, innovation studies, science dynamics, and social network analysis (Linton Freeman, Ludwig Fleck, but also Michel Callon).

Although the thesis is a historical study on the 1960s, 1970s and 1980s, it is highly relevant for discussions on fuel cells today. Being the youngest candidate among the 20 applicants, Simoncini's work is mature enough to address the current paradoxes in the politics and history of technology. It is a truly original work that, among other issues, questions the very notion of a pioneering innovation that plays such a central role in many works on history of technology. He shows how long and controversial the way of such an innovation could be, depending of the context, demand, and political challenges. The fuel cell which is now considered as a source of new ecologically-pure energy has, as the author shows, a long and controversial history, which makes the insights from this book particularly relevant for today.

Honorable mention:

Lucía Jimena Juárez, *Trading Nations: Architecture, Informal Empire, and the Scottish Cast Iron Industry in Argentina*. PhD thesis, The University of Edinburgh, March 2018.

This is very broad and solid study of Scottish-Argentinian industrial relations and Scottish industrial heritage still present in Argentina. The thesis is strong on the interplay of imperialism, technology, architectures and culture, which is of great value in itself, but is really superb as contribution to the study of industrial heritage in an imperial context. It is a truly remarkable, thorough mapping of the Scottish industrial contribution and heritage in Argentina. The non-state actors which are often quite invisible in the nineteenth-century historiography are really brought to light by the sources studied by the author. This will be very useful for other researchers who wish to trace global capitalism and the technological dimension of it. The committee was impressed by the comprehensive overview and detail of all the remaining sites of Scottish activities in Argentina. This thesis will therefore be of high relevance in the area of industrial heritage.

The Turriano Prize Committee:

Ernst Homburg, Maastricht (Chair)

Irina Gouzevitch, Paris

Per Lundin, Gothenburg

Darina Martykánová, Madrid

Klaus Staubermann, Berlin

II. OPEN SOURCES

New issue of *HoST - Journal of History of Science and Technology* (14.1, June 2020) online

HoST — Journal of History of Science and Technology is a peer-reviewed open access journal, available online, published in English by De Gruyter/Sciendo, as a result of a partnership between four Portuguese research units (CIUHCT, CIDEHUS, Institute for Social Sciences, and Institute of Contemporary History).

[TABLE OF CONTENTS OF VOLUME 14.1](#)

- **Special issue “Standards: Taming Knowledge?”**, with an introduction by the guest editors Javier Ordóñez and Antonio Sánchez to the four articles that it contains. They are case studies dealing with the setting of standards’ epistemological and institutional issues in the modern period, with approaches ranging from the history and philosophy of mathematics, the history and visual culture of biology to the history and philosophy of science and technology.
 - [“Introduction: Standards in the History of Contemporary Science”](#), Javier Ordóñez and Antonio Sánchez
 - [“Domesticating Light: Standards and Artisanal Knowledge in Early Astrophysics”](#), Javier Ordóñez
 - [“Gauss and the Mathematical Background to Standardisation”](#), José Ferreirós
 - [“Standard Making in Cytogenetics: the Manufacture, Circulation and Reproduction of Chromosome Images”](#), María Jesús Santesmases
 - [“Preserved Worlds: Vulnerability, Ontology, and the Logics of Standards”](#), Nuria Valverde-Pérez
- An additional article to the **special issue published in *HoST* 13.1 “Before the Silent Spring: Pesticides in Twentieth-Century Europe”**
 - [“Syntheticising Scandinavia: The Introduction of Synthetic Pesticides to Scandinavian Gardens, 1945-1952”](#), May-Brith Ohman Nielsen
- The article of the **Distinguished Lecture** (CIUHCT) by David Pantalony, discussing the importance of the collections of scientific artefacts through examples from his work as Curator at the Ingenium - Canada Science and Technology Museum and from his recent research in other collections (namely German)
 - [“What Remains: The Enduring Value of Museum Collections in the Digital Age”](#), David Pantalony
- A **“work in progress”** by the PhD candidate Breno Albuquerque B. Borges about his ongoing work, [“A New Approach to the Concepts of Conservation to Identify and Evaluate Railway Heritage through Indicators”](#)
- Three **book reviews**
 - [“Book review: Agustí Nieto-Galan. *The Politics of Chemistry: Science and Power in Twentieth-century Spain*”](#), Ignacio Suay-Matallana
 - [“Book review: Tiago Saraiva and Marta Macedo \(eds.\). *Capital Científica. Práticas da Ciência em Lisboa e a História Contemporânea de Portugal*”](#), Frédéric Vidal
 - [“Book review: Charles W. J. Withers. *Zero Degrees: Geographies of the Prime Meridian*”](#), Pedro M. P. Raposo

III. DHST DISSERTATION PRIZE

Dear colleagues,

The call for applications for the 2021 DHST Dissertation Prize is now open.

See <http://dhstweb.org/awards/dhst-dissertation-prize>

The deadline for applications is 1 October 2020, (22:00 GMT). Please kindly circulate this information on mailing lists and to colleagues around you.

With best wishes,

Catherine Jami

IUHPST/DHST Secretary General

IV. LAKATOS AWARD 2020

The London School of Economics and Political Science (LSE) is pleased to announce the winner of the 2020 Lakatos Award, which goes to Nicholas Shea for his book *Representation in Cognitive Science* (Oxford University Press, 2018).

The Lakatos Award was made possible by a generous endowment from the Latsis Foundation, in memory of the former LSE professor Imre Lakatos. It is administered by an international Management Committee, which is organised from the LSE but entirely independent of LSE's Department of Philosophy, Logic and Scientific Method. The Committee decides the outcome of the Award competition on the basis of advice from an anonymous panel of selectors who produce detailed reports on the shortlisted books.

The prize winner will receive their Award and deliver their prize lecture at the LSE at a time and location to be confirmed later. The lecture will be open to the public.

Representation in Cognitive Science is praised by selectors as “a blockbuster of a book” and “a landmark study”. Its argument is acclaimed to be “original in interesting ways, without losing touch with the existing literature” and the book is reported to be “well-written and convincingly argued”. This is all the more important given that “the problem is a really difficult one, that is arguably the key problem in the philosophy of psychology and cognitive science” and “making a novel contribution in this area, as Shea has done, is no small feat: it requires mastery of a massive and complex philosophical literature, and a deep familiarity with cognitive science, both of which Shea has”. The book is praised for how it “integrates the abstract philosophical arguments with examples and case studies from cognitive science”. For these reasons “the book certainly constitutes a major advance on the problem of naturalizing representational content and is a welcome contribution to the teleosemantic tradition”.

The book is open access and the PDF can be downloaded for free from Oxford University Press's website here <http://bit.ly/RepnCognSci>.

Nominations are invited for the 2021 Lakatos Award, with a strict deadline of Tuesday 1 September 2020. The 2021 award will be for a monograph in the philosophy of science broadly construed, either single authored or co-authored, published in English with an imprint from 2015 to 2020, inclusive. Anthologies and edited collections are not eligible. Any person of recognised standing within the philosophy of science or an allied field may nominate a book. Nominations must include a statement explaining the nominator's reasons for regarding the book prizeworthy. Self-nominations are not allowed.

Please address nominations, or any requests for further information, to the Award Administrator, Tom Hinrichsen, at t.a.hinrichsen@lse.ac.uk.

Imre Lakatos, who died in 1974 aged 51, had been Professor of Logic with special reference to the Philosophy of Mathematics at the LSE since 1969. He joined the Department of Philosophy, Logic and Scientific Method in 1960. Born in Hungary in 1922, he graduated (in Physics, Mathematics and Philosophy) from Debrecen University in 1944. He then joined the underground resistance. (His mother and grandmother perished in Auschwitz.) After the War, he was active in the Communist Party and had an influential position in the Ministry of Education. In 1950 he was arrested and spent the next three years as a political prisoner. After his release, he was given refuge in the Hungarian Academy of Science where he translated western works in science and mathematics into Hungarian. After the suppression of the Hungarian uprising he escaped to Vienna and from there, with the aid of a Rockefeller Fellowship, on to Cambridge, England. He there wrote his (second) doctoral thesis out of which grew his famous *Proofs and Refutations* (CUP, 1976, edited by John Worrall and Elie Zahar). Two volumes of *Philosophical Papers*, edited by John Worrall and Gregory Currie, appeared in 1978, also from CUP. <http://www.lse.ac.uk/philosophy/lakatos-award/>

V. DIGITAL WORKSHOPS

THE SCIENTIAE WORKSHOP SERIES PRESENTS:

6 AUGUST, h. 17:00 (Rome);

THE DEEP TIME OF THE EARTH

ENVIRONMENTAL EXPERIMENTS WITH HISTORY



This workshop aims to revisit the relation between environmentalism and sustainability on the one hand, and historiography on the other; in particular, by building on the ‘material turn’, it seeks to reflect on subterranean knowledge as a way to conceptualize the role of distance and scale. While the deep time has obviously featured as a point of inquiry in the history of geology, our view is not limited to that discipline, but also relates to traditions of learned meteorology, to the empirical expertise of Renaissance artists/engineers, to the epistemic practices of early modern mining, and finally to how Leibniz received the sciences of the Earth in his own time.

Speakers

Ivano Dal Prete (Yale University)

Tina Asmussen (ETH, Zurich)

Enrico Pasini (University of Turin)

Info and Structure

This event is organized and moderated by one of the *Scientiae* Directors, **Stefano Gulizia** (Polish Inst. of Advanced Studies), who can be reached at sgulizia@gmail.com for any question.

The event is free. To register, please write an email to pertransibunt@gmail.com and you will receive the link to join the Zoom meeting. Do not share this link. Note that we will be recording the live sessions. We may or may not use the recordings subsequently, depending on how they go.

For past events in this series, see the page www.scientiae.co.uk/online-events/.

All presenters are kindly requested to send a copy of their slides to the moderator, who will be able to share them and point to the relevant image in case people refer to them during live discussion. The format for the Q&A is as follows: 1. The chair asks each of the confirmed speakers if they have any questions for the other presenters (2 mins max per presenter), 2. The floor is open to all participants using the chat and 'raise hand' button, 3. Each presenter is given a chance for final reflections (2 mins max per presenter).

The workshop ends at 18:30, in Rome time, and **lasts 90 minutes from beginning to end.**

Understanding social identities, cultural imaginaries and political agendas in the history of electricity and electrification

Electrical History Research Group

Centre for the History and Philosophy of Science 24th September 2020

The **Electrical History Research Group** (CHPS - University of Leeds) announces its **first online research workshop**. Established in 2018 by a group of researchers at the University of Leeds and Leeds Trinity University with interests in histories of electricity in varied historical contexts, the Electrical History Research Group hosts monthly virtual reading groups, discussing new and established scholarship on electrical histories. We intend to reach out to and include scholars from around the world, and expand our activities through discussions, blog posts, and interviews.

Registration to the workshop is now open. Please note that registration will be required to participate. Please express your interest or send your queries to D.Zapico@leeds.ac.uk.

The link to the online workshop and further details will be made online at <https://electricalhistoryresearch.wordpress.com/>

Climate change and resource depletion are prompting a re-assessment of modern forms of energy usage, including assumptions about the sustainability of high-energy use and unlimited growth (Smil, 2003 and 2017). In that context, historians are encouraged to re-evaluate the larger implications, constraints and consequences of energy in human society and history (Nye, 1999; Crosby, 2006). Since energy transition to a more sustainable way of living cannot be reduced to the market or purely technological solutions, we need an urgent interdisciplinary conversation to understand the social, cultural and institutional forces inscribed in energy practices and systems (Abram, 2019).

Therefore, the challenges of the pending energy transitions of the 21st century presents an opportunity for social scientists to provide a more reflective picture on the complex relationship

between energy and society, as well as the forms of interpreting, managing and imaging energies and our future with them. This includes take into consideration disparate and often conflicting elements such as technologies, infrastructures, energy resources, government regulations, business practices, but also consumers choices, cultures of consumption, societal perceptions and other public controversies that could shape public acceptance of systems of energy production. This way, energies emerged as sites of controversy and social experimentation (Mazur, 2013).

Within that frame, historians can provide a more detailed and critical understanding of past and present energy societies and its capacities of transition (Möllers and Zachmann, 2012). This should include an integrative expertise based on deep knowledge of how energy systems emerged historically, the particularities of distinct energy histories on the regional or the national level, energy consumption practices as the outcome of societal contracts and cultural traditions, the uneven distribution of energies benefits and costs throughout history -prices, environment, health-, the variety of energy choices available and the interrelation between new and old forms of energy (Sandwell, 2016).

As the *Electrical History Research Group* (CHPS – University of Leeds) we would like to cooperate with this endeavour through an interdisciplinary dialogue with other scholars inside and outside the University of Leeds by means of a one-day workshop focused on the historical development of electricity and electrification. Throughout the meetings of our recently formed research group, we have discussed the practices and ideas embedded in electrification. From the second half of the nineteenth century (and across many countries), different narratives shaped different understandings of electricity's agency as an autonomous force able to trigger broad social, cultural and even political change. Hence, electrical technologies have been incorporated within the triumphalist rhetoric of a Western-dominated modernity. This deterministic approach to the history of electricity has permeated the way in which different audiences -historians included-, have represented the sociocultural and historical encounters with electricity and the configuration of energy choices through history.

Within this frame, the narrative of electrification, still deeply influenced by T.P. Hughes's *Networks of power* (1983), usually portrays a top-down inevitable process with an emphasis on the agency of engineers, entrepreneurial circles or political and institutional authorities. Recent studies, however, have pointed out how the advent of an 'electrical modernity' was not an unavoidable but rather a contested process, since different individuals and groups imagined and employed electricity from within their social identities and wider political, ideological and cultural frameworks (Kline, 2003; Gooday, 2008; Vermeir, 2016; Morus, 2016; Harrison-Moore and Gooday, 2016; Brassley, Burchardt and Sayer, 2016). Our reflections especially build upon Graeme Gooday's work *Domesticating Electricity* (2008), which explores the problematic advent of electric lightning in Victorian homes. This work points out to the need of crossing classic interpretations of electrification with other socio-cultural concerns such as gender or class issues to form the most socially inclusive and culturally differentiated account of its heterogeneity.

Therefore, with this workshop we would like to explore approaches which help to provide a more complete picture of how historical choices around electrical technologies were conformed and evolved. This includes taking into consideration consumers sensibilities and the active role of users, but also the recognition of the diverse groups and actors participating in the process and their distinct -even discordant- social, gender, ethnic or spatial identities. Our account would consider also political issues such as nationalism, colonialism, the engagements with different types of modernity and wider socio-technical dreams and imaginaries. In this way, we argue that the

history of electricity and electrification should be understood as a history of successive adaptations to specific historical, social or national scenarios where the different electrical languages were appropriated, and the distinct meanings of electricity were articulated.

Some of the questions that we would like to address are:

- What is still useful about the system-centred approach to the history of electrification and what new directions do we need?
- What benefits are there instead of talking about different even divergent- 'electrical cultures'?
- How might we characterize these cultures?
- How far have such cultures shaped energy-choices through history?
- How the historiography of electricity could benefit from the social sciences, especially from the social studies of energies and other correlated fields?

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Panel 3: Challenging the Modernity framework: adaptation and national cultures of electricity (4 – 5.30pm)

Speakers

- Clarence Hatton-Proulx (Centre Interuniversitaire de Recherche sur la Science et la Technologie, Université du Québec à Montréal) *“Under your Feet, a Wonderful System”: Burying Montréal's Electricity Distribution Network, 1890-1910*
- Michael Kay (University of Leeds) *The electrification of the English country house*
- Paul Coleman (University of Leeds) *The role of the military in the development of the British National Grid*
- Daniel Pérez Zapico (University of Leeds): *The Languages of Electrical Modernity in Spain: Regeneration and National (Re)construction after the 1898's Disaster*

VI. CALLS FOR MANUSCRIPTS

Building Transport History Ontologies

The current Covid-19 pandemic is bringing to the foreground all the aspects related to mobility and movement, and naturally, in the making of the global lockdown, its opposite: immobility. The spread of the coronavirus and its worldwide impact is strongly linked to the movement of humans, virus and objects. The only possible action available, so far, has been to lessen or even stop mobility, so as to reduce the transmission of the virus. The lockdown carried out around the globe has shown, to an unprecedented extent, the role played by transport (as well as by the lack of it) to our economy, society and life. The lockdown, as an “extraordinary” situation, has also displayed, in an apparently counter-evident way, how mobility has been unevenly distributed and used in “normal” times. These new and old questions arrived at the moment the field of transport history is facing remarkable changes, as shown by The Journal of Transport History’s production in the past three years. The JTH has moved several steps in the direction of research diversity. Although the rate of submissions from the “North- Atlantic” area represents about 60 per cent of the total, work on Latin America, Asia and Africa is growing quickly. Over this time, JTH received submissions from around 30 different countries. It is a rough – but still significant – indicator of the geographical variety of the authorship. The focus of many papers and, even more importantly, of the past and upcoming special issues (including the one presented in 2020)¹ are focusing on areas beyond the North Atlantic. In other words, geographical variety is growing, both in the authorship and in the research foci. We can also claim a stronger gender balance, which is well reflected in the composition of the JTH Editorial board, in the guest editorship of special issues (where it reaches 50%), and, to a lesser extent, to the authorship (still 75% are males). Finally, early-career scholars seem to be interested by transport history, as witnessed by the growth in submissions for the annual John Scholes Prize. We are pleased by these outcomes, and we aim to continue to publish excellent, stimulating scholarship. We are a journal offering the readership the latest developments in the field, with an open mind. While building on what we have done and what we are doing, the transport history field is still in need of a debate addressing the big, fundamental question: the theorization of what transport is and has been, with the related subset of questions: what to

¹ Special issue on “Global Histories of Transportation Networks”, The Journal of Transport History 41:1 (2020).

investigate and who are the actors; the relationship between mobility and immobility; what movement is, and so on. Three years ago, the JTH made a call for a new ontology for transport history². We argued how, in past decades, transport history changed its foci, approaches and research areas, opening up new investigation avenues and taking advantage of the work done in the fields of cultural, global, urban history, as well as history of technology and business studies. However, we are still missing an ontology of transport history, that is, (i) why transport and mobility discourses “are irreducible to other social or technological processes”³ and (ii) what are its own ontological characteristics?

The current mobility and immobility discussion is naturally influencing transport history too. Beyond similarities to past zoonoses (including 10-thousand-yearold measles), the current events are calling for a better historical appraisal of mobility and immobility, questioning larger concepts related to movement: circulation (of bodies, virus, food, etc.), globalization, human and non-human exchanges, governance, social reproduction; pertinent concepts suddenly at the centre of the stage, not only for some scholars but also entering the social and political agenda for policymakers and the public.

In other words, Covid-19 is shaking the status quo and forcing new questions about many concepts we use, urging us to open a theoretical discussion about transport history, its background and its epistemological foundations. This is not new: in past years, as an Editorial Board, we have debated the need for a theoretical framework and even to prepare – so far unpublished – a handbook for transport history, which should act as a reference to develop a paradigm for the field (and eventually to criticize it, following Kuhn’s most classical description of scientific knowledge). In this vein, The Journal of Transport History is launching this Call for Papers devoted to further developing the ontology of Transport History. The papers can have any format or length (between 2 and 8 thousand words) and take on innovative analytical approaches. As a non-binding suggestion, we consider here two possible main avenues of research. The first one should be able to better elaborate some paradigmatic concepts for transport history and eventually frame these ideas in the wider historical and theoretical debate. The goal is to gauge transport history with other subfields, including, but not limited to, urban history, global history and history of technology. In addition, we encourage exploring relations between transport history and more theory-driven fields such as urban theory, STS, political geography, or organizational studies, to name a few. This should lead to a more active and open discussion, questioning the values and limits of the current paradigms present in other historical disciplines. The second avenue of research should critically address the role, relevance (and limits) of the mobility turn. Transport history must play a relevant role in questioning how history can add to the discussion around the mobility turn, but also addressing the ever-present risk of a-chronological mobility investigations, which investigate the present patterns and form of movements as unprecedented and undoubtedly novel. History has the full potential to avoid “chronocentrism” and to display both the recurrences and novelties of present patterns. The latter point is even more important considering the magnitude of the mobility/immobility patterns triggered by Covid-19. The papers collected for this CFP, which will be published in the JTH, will eventually – with the authors’

² Massimo Moraglio, “Seeking a (new) ontology for transport history”, *The Journal of Transport History* 38:1 (2018), 3–10.

³ Colin Divall, “Mobilities and Transport History”, in Peter Adey et al. (eds.), *The Routledge Handbook of Mobilities* (London and New York: Routledge, 2013), 36–44, here 37.

agreement – be used as the foundation for a future Handbook of Transport History, which may take the form of a print volume or an on-line depository.

Special issue Guest Editors: Massimo Moraglio, Michael Bess, Greet De Block, Mike Esbester, Valentina Fava, Dhan Zunino Singh Abstracts are welcome until 30 August 2020, to be sent to JTH Editor-in-chief Massimo Moraglio jth.editor@gmail.com. Submissions after this deadline are also welcome, and they can be delivered to <https://journals.sagepub.com/author-instructions/JTH> Papers will be subject to a double blind review process. Final submissions for the full papers should be lodged by **30 November 2020**.

Massimo Moraglio

Technische Universitaet Berlin, Germany

Michael Bess

Centro de Investigacio´n y Docencia Econo´micas, Mexico

Greet De Block

University of Antwerp, Belgium

Mike Esbester

University of Portsmouth, UK

Valentina Fava

Czech Academy of Sciences, Czech Republic

Dhan Zunino Singh

University of Quilmes, Argentina

***Historiography of Science and History of Science* [The December 2020 Edition]**

www.historiographyofscience.org

The upcoming December 2020 edition of *Transversal: International Journal for the Historiography of Science* will not feature a special issue (dossier) on a specific point of the historiography of science, *as usual*. Due to the large number of regular articles on open and broad themes in history and the historiography of science constantly being received and which do not fit in special issues – but are particularly important to the field – this next edition of *Transversal* aims at bringing together different viewpoints on the writing of the historiography of science and additionally, the history of science, philosophy of science, and science education. The aim is to display, in an open and broad sense, the different possibilities and approaches to this field of study.

We hope to receive articles that discuss the history and historiography of distinctive disciplines (physics, mathematics, biology, geography, sociology, etc.) as well as different subjects and approaches of history and philosophy of science (the foundation of science, scientific methodology, social and scientific relationships, etc.).

Submission details:

Submission must be received by **September 15, 2020** via the journal webpage

www.historiographyofscience.org so they can be considered for the **December 2020** issue.

Submissions must be prepared for double blind review. Notification of acceptance will be sent on **November 15, 2020**.

Please, see the [Author Guidelines](#) here.

For any further information concerning this Call for Papers please contact:

Mauro L. Condé – Universidade Federal de Minas Gerais, Brazil

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***The Journal of the International Society for the
History of Philosophy of Science***

Special Issue: *Building Universe(s). The philosophical and mathematical underpinnings of cosmology
(18th-20th century).*

The ERC project Paradoxes and Metaphors of Time in Early Universe(s) (PROTEUS) is delighted to invite submissions for the special issue titled “*Building Universe(s). The philosophical and mathematical underpinnings of cosmology (18th-20th century)*”.

Editors: Silvia De Bianchi, Autonomous University of Barcelona, silvia.debianchi@uab.cat; Federico Viglione, Autonomous University of Barcelona federico.viglione@uab.cat

This special issue is devoted to the history of the philosophical and mathematical foundations of cosmology (18th-20th century). It takes into account the period ranging from the great revolution in observational cosmology introduced by William Herschel up to the 20th century, including the observation of the CMB radiation. The development of both theoretical and observational cosmology disclosed with unprecedented precision and depth the structure of our universe and they had been and still are inextricably based on mathematical and philosophical underpinnings. In this special issue both are investigated by focusing on the work of scientists, mathematicians and philosophers that contributed to the formulation of approaches that were or still are of fundamental importance for the understanding of the history and philosophy of cosmology. We welcome contributions on both how mathematicians and philosophers contributed to cosmological models or on the analysis of the history of the models, such as the steady state theory, and the concurring contribution of various actors for their development.

Invited contributors

- Cinzia Ferrini (University of Trieste)
- Claus Beisbart (University of Bern)
- Craig Fraser (University of Toronto)

Our issue can already count on contributions on the following topics

- Kant and Schelling on cosmology
- Kant's Evolutionary View of Natural History
- The Antinomy of Pure Reason in the Light of Problems of Present-Day Cosmology
- The reception of the first antinomy and the cosmological debate of the middle 20th century
- Cosmology Before Slipper

Instructions for Authors: Contributors should submit their articles by **January 31, 2021**. Papers must not exceed 7000 words. Please make your submission through

<https://www.editorialmanager.com/hopos/default.aspx>

More information available at

<https://www.journals.uchicago.edu/journals/hopos/instruct?mobileUi=0>

VII. CALLS FOR PAPERS



Since 1991, when the first meeting was organized in Veszprem (Hungary), the Working Party on the History of Chemistry (WPHC) of the European Chemical Society (EuChemS) organizes an international conference on the history of chemistry, open to colleagues from all over the world. Thirty years later, the 13rd International Conference on History of Chemistry (13ICHC) will be held in Vilnius (Lithuania), from the 18th to the 22nd of May 2021. See:

(<https://www.ichc2021vilnius.chgf.vu.lt/>).

The ICHC aims to bring together historically interested chemists, chemistry educators and historians of chemistry from all over Europe and beyond. For more information on the WP, see the website: <http://www.euchems.eu/divisions/history-of-chemistry-2/>.

The conference will be hosted by Vilnius University (established in 1579), in the premises of the old city. The Department of Chemistry was established in 1797, still holding a position of one of the most popular departments at the University. The conference will include scientific sessions, keynote lectures, the WP business meeting, a poster session as well as social events such as excursions, receptions, and a conference dinner banquet. It is a pleasure to inform that the plenary lectures by Marta Lourenço (Director of the National Museum of Natural History and Science of Lisbon), Rimantas Vaitkus (President of the Lithuanian Chemical Society), and Rimvydas Baranauskas (Prime Partners), are already approved, and other keynote speakers will be announced soon. Some useful information on the city, the excursion organised on 22 May 2021 to Kernavė and the Trakai History Museum, and accommodation can be found on the [conference website](#), and the [Facebook page](#).

The 13ICHC in Vilnius will be organised in conjunction with the Belorussian-Lithuanian-Polish Jędrzej Sniadecki Memorial Conference “Frontiers in MolecularLife Sciences” – JSMC2021. Jędrzej Sniadecki was the first head of Chemistry Department at Vilnius University (during 1797–1822). The conference JSMC2021 will continue to commemorate the 250th anniversary of Sniadecki's birth.

Important Dates*:

-Deadline for submitting proposals: 1 December 2020

- Notification of acceptance: January 2021

-Provisional program: Early February 2021

-Final program: April 2021

-Conference dates: 18th to the 22nd of May 2021.

*Due to the worldwide sanitary crisis, it might be necessary to alter some of these dates at a later stage.

Proposal guidelines:

The Steering Committee encourages the submission of panel/session proposals, but also accepts the submission of stand-alone papers. The 13ICHC welcomes proposals on any topic on the history of chemistry, broadly understood, including historical works on molecular sciences, life sciences,

industry, technology, and education. We will also welcome papers on the teaching of history of chemistry, in order to reach out to the wider community and to the younger generation.

All proposals must be in English, the language of the conference. Submitted abstracts and session proposals (max. 200 words) will be subject to review by an international Advisory Committee. Sessions should include about 3–5 papers, and no more than one session can be proposed by the same organizer. There is a limit of one paper per presenter (including the papers listed inside a panel or a session). All paper proposals must use the [templates](#) provided on the conference web site.

The Steering Committee consists of Ernst Homburg, Maastricht University, and Ignacio Suay-Matallana, IILP-Universidad Miguel Hernández, (chairs of the Steering Committee), Brigitte Van Tiggelen, Science History Institute, (chair of the WPHC), and Rimantas Vaitkus, Vilnius University, (co-chair of the Local Organising Committee, president of the Lithuanian Chemical Society).



23 - 24 November 2020 - online event

Join us and share your knowledge!

This conference welcomes papers that present, discuss, and reflect upon the technical, social, and institutional challenges that experts and researchers in the field of digital heritage encounter when enriching heterogeneous digitized collections with context. Think of handwritten and physical collections (field books interspersed with images, labels on scanned physical objects, 3D scans of objects in the domain of natural and cultural heritage). Interested? Submit your paper. [Check the full call for papers](#). Deadline 11 September 2020. The best papers will be published in the ACM Journal of Computing and Cultural Heritage ([JOCCH](#)).

How to interpret handwritten archives with textual and visual elements

Many handwritten archives and collections of physical objects in the realms of natural history, archaeology, history, art history, and science entail combinations of textual and visual elements whose interpretation requires a range of different expertise and computational technologies.

The challenge: heterogeneous character of digitized collections and archives

In recent years, libraries, archives and museums have spent major efforts on annotating and enriching their digitized collections with contextual information, in order to make them retrievable and interlinked in novel ways. Often institutions aim to enhance their reach and relevance for broader user groups. A major challenge in the field is the heterogeneous character of many such digital archives and collections.

About the conference

The international conference Collect & Connect: Archives and Collections in a Digital Age will be held as an online event at 23 - 24 November 2020. The conference:

1. Officially concludes the NWO/Brill Creative Industries Project [Making Sense of Illustrated Handwritten Archives](#) and presents the results of finished and original research in the field of digitized archives and natural and cultural heritage collections.
2. Aims to promote exchange and discussion between researchers and heritage professionals in the field of digital natural and cultural heritage.

This conference is for you if you're an expert in the field of:

- Digital Humanities
- Digital, Cultural and Natural Heritage
- Digital Collection and Archives Curation
- Semantic Data Integration

Is this conference not for you? Forward this mailing to anyone you know who might be interested. Interested? Submit your paper. [Check the call for papers guidelines](#). Deadline 11 September 2020. The best papers will be published in the ACM Journal of Computing and Cultural Heritage ([JOCCH](#)).

For more details see:

[Website international conference](#) Collect & Connect: Archives and Collections in a Digital Age.

[Project Making Sense of Illustrated Handwritten Archives](#)

[Follow Naturalis Biodiversity Center on Twitter](#) for updates on the conference.

[#shareyourknowlegde](#) [#collectandconnect](#)

Kind regards,

The Organizing Committee



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BRILL



VIII. JOBS, POSTDOCTORAL POSITIONS, RESEARCH FELLOWSHIPS, AND GRADUATE SCHOOL OPPORTUNITIES

Job Advertisement: Three to Four Year Postdoctoral Position at Vrije Universiteit Brussel with Prof. dr. Steffen Ducheyne, Research Project: 'An Integrated Study of Isaac Newton's Methods'

Deadline: 8 November 2020

PROJECT DESCRIPTION

The postdoctoral research project 'An Integrated Study of Isaac Newton's Methods' will focus on the potential interaction between the different methods which Isaac Newton used in his work. Newton is often celebrated as one of the most important physicists in the history of science. However, Newton was not only an innovative physicist and mathematician, he also developed new methodological instruments. Ever since I.B. Cohen's seminal study *The Newtonian Revolution*, scholarly attention has been devoted to Newton's natural philosophical methods, and especially to his so-called 'Principia-style' methodology. More recently, scholars including Raquel Delgado-Moreira, Rob Iliffe, Mordechai Feingold and Jed Z. Buchwald, and William R. Newman have unearthed and studied the methods on which Newton relied in his chronological work, in his work

on Church history, in his prophetic work, and in his alchemical work. As it stands, we lack a comprehensive historical and systematic analysis of Newton's methods, and we do not fully know whether the different methods which Newton pursued in different areas of research interacted or not. This research project will provide an integrated study of Newton's methods, which means that the development of the methods which he used in different areas of research will be studied jointly so that claims can be developed about their potential interaction. The postdoctoral researcher will work closely with the supervisor, Prof. dr. Steffen Ducheyne, and with a doctoral student who is currently preparing a PhD on the development of Newton's methods in his optical work. The research areas that will be studied (chronology, alchemy, Church History, prophecy, etc.) will depend on the researcher's expertise. The duration of the research project and the salary will depend on the seniority of the candidate.

JOB PROFILE AND REQUIREMENTS

- * The candidate has a strong interest in the history of science, research methods, Isaac Newton, and he or she has expertise that is relevant to the research topic.
- * The candidate has published in international journals and he or she has presented his or her research at international conferences.
- * The candidate holds a PhD degree.
- * The candidate is able to independently read and translate Latin and has excellent oral and written communication skills in English.
- * The candidate is an enthusiastic team player, self-propelling and committed to becoming an active member of the Centre for Logic and Philosophy Science.
- * The candidate is willing to travel abroad.
- * Female candidates are especially encouraged to apply.

HOW TO APPLY

Applications are welcomed in English. Please send:

- (1) a cover letter describing your interest in and suitability for this postdoctoral fellowship;
- (2) a full curriculum vitae (including a. a copy of your PhD diploma, b. an copy of your PhD dissertation, and c. one or two (un)published writing samples); and
- (3) two letters of recommendation

to [steffen.ducheyne\(AT\)vub.be](mailto:steffen.ducheyne(AT)vub.be) before Sunday 8 November 2020. Short-listed candidates will be interviewed (online, if necessary). For more information, please contact Prof. dr. Steffen Ducheyne.

IX. Join ICOHTEC

Please share this form with a colleague who is not yet a member or ask your library to subscribe



Form for annual membership renewals / registration of new members

Annual membership includes subscription to ICOHTEC's refereed annual journal ICON, access to all back issues of ICON in electronic form via the ICOHTEC website, a monthly Newsletter, and special registration rates at the annual ICOHTEC symposium.

I wish to renew my membership / to become a new member in ICOHTEC. (Tick below the appropriate description/rate):

- An individual. Rate: (40 \$ or 30 € or equivalent) per year
- A student. Rate: (40 \$ or 30 € or equivalent for two years)
- An institution. Rate: (100 \$ or 75 € or equivalent) per year
- A library. Rate: (Europe: 36 €, Overseas 39 € or 52 \$) per year

Tick the years of membership to be paid: 2018 2019 2020 2021

I submit the total amount: _____ euro (or USD)

Your first name and surname: _____

Email: _____

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Tick the method of your payment:

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IBAN: DE44 4304 0036 0390 2590 00; BIC: COBADEFFXXX (members in Germany take Commerzbank Bochum BLZ 43040036, Nr. 390259000).

- Through a cheque. Send the check with the appropriate sum made out to “ICOHTEC” and send to: Dr. Lars Bluma, Otmarstrasse 5, D-45131 Essen, Germany.

After filling the form, please scan and send by email to Timo Myllyntaus, ICOHTEC Treasurer at timmyl@utu.fi or, send a hardcopy by regular mail to Timo Myllyntaus, Turku School of Economics, Rehtorinpellonkatu 3 Room 313, 20 500 Turku, Finland. Your filled form will facilitate sending ICONs and allocating access privileges.