

Adriano Bencini, M.D, prototype machine for extracorporeal blood circulation, the fundamental prerequisite for open heart operations. In Adriano Bencini. "Un Apparecchio Ossigenatore e Propulsore a Scopo Sperimentale". *Atti della Società Medico-Chirurgica di Padova e della Facoltà di Medicina e Chirurgia della Università di Padova*, XXVII. 1949.

The sound of the hearth: <https://youtu.be/R49d4f5sEs4>

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

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## I. ICOHTEC

### I.1 MESSAGE FROM ICOHTEC SECRETARY GENERAL

Dear Colleagues and Friends,

It was a great pleasure to meet some of you in the virtual space, when attending our digital symposium last month.

#### ICOHTEC digital

ICOHTEC digital has been one of the first international conferences of this type in the humanities. A huge number of papers were dedicated to the conference's main theme "A History of Technology for an Age of Crisis". Quite different approaches and examples were discussed – including influences of COVID-19 on academic research and society in different countries. Highlight was the Kranzberg Lecture "Humans, Technology, and Nature: A Recipe for Crises?", delivered by our past president James Williams. It will be published in a special issue of ICON, dedicated to crises.

Thanks to hard work of our local organizers – namely thanks to Angelique Bakker, Jan Korsten and Erik van der Vleuten (Eindhoven University of Technology) – and due to interesting presentations, this experimental meeting was successful. In result, we consider integrating digital events in activities of ICOHTEC. A committee will discuss options and propose virtual activities.

#### Annual Membership Fees

Normally the symposium gives an opportunity to pay fees. Since there was no chance to do so, please pay your annual fees to our account at Commerzbank Bochum, if not done until now. Due to recent developments (please find information in the reports of the officers), we will use only this account for collecting fees:

**ICOHTEC at Commerzbank Bochum (Husemannplatz 3-4, D-44787 Bochum, Germany):  
IBAN: DE44 4304 0036 0390 2590 00; BIC: COBADEFFXXX**

General Assembly 2020 decided on the same annual fees of ICOHTEC membership as last year. Thank you to send the membership form (on last page of the ICOHTEC Newsletter) to our treasurer Timo Myllyntaus and to me; this is helpful to send out ICON and to give access to our membership area.

Best wishes

Stefan Poser

ICOHTEC Secretary General

### I.2 OFFICERS AND COMMITTEES REPORTS, 2019 - 2020

#### **ICOHTEC President Report, 2019 – 2020**

In October 2019, while attending the SHOT meeting in Milan, I approached their president Tom Misa to propose a closer collaboration. We discussed different options, from co-sponsoring a workshop to co-organizing annual meeting of both organizations. We agreed that organizing a joint workshop using an existing fund that SHOT already has for such activities would be a good starting point. The

extremely friendly and positive atmosphere of this conversation is a good sign for future collaboration with SHOT. After the COVID-19 pandemic broke, I was actively involved with Secretary General, and the Local Organizing Team in planning the digital edition of this year annual meeting.

#### **ICOHTEC Webmaster Report, 2019 – 2020**

During the past academic year, apart of typical duties such as regularly updating the content (uploading the monthly newsletters and periodic announcements, granting access to Members Area for new members), I have been regularly posting the most important news concerning ICOHTEC's activities on social media, particularly on our Facebook and Twitter profiles. As every year, I took care of paying the annual fees for renting virtual server and for internet domain icohtec.org. I set up and maintained the online submission system for Prague 2021 annual meeting, assisting the Chair of the Program Committee and the Local Organizing Committee whenever it was needed to manually edit the entries and maintaining the system. I continued uploading the back issues of ICON to our online repository, which is available in our Members Area.

Both reports by Slawomir Lotysz

#### **ICOHTEC Vice President Report, 2019 – 2020**

The two tasks for which I usually follow are the annual, post conferences initiation of the book prize committee (headed by Ernst Homburg) and the Daumas prize committee (headed by Maria Callapez), and tracking progress.

This year in agreement with Stefan, he took the lead and I thank him for that. This pattern, maybe repeated this year (2021). The reasons are mostly workplace demands (due to COVID-19, there are more demands for our medical devices, which assist artificial respiration. We also had to keep quality system working, similar to universities' attempts to continue the courses). My free time was devoted for completing articles for print and beginning new topics. Nevertheless, I was always online, participating in zooms and e-mails on the ongoing questions, as the Eindhoven issue. Thanks for Ernst and Elvira for the organizational and professions work

All the Best  
Yoel Bergman

#### **Report of the Secretary General and the Chair of the Program Committee 2019-2020**

This year we had to prepare two symposia, the 2020 meeting in Eindhoven, which will become our first digital symposium now, and the ICOHTEC symposium in Prague 2021, which will be part of the International Congress for the History of Science and Technology, ICHST. In case of Prague, Susan Schmidt Horning kindly agreed to serve as chair of the Program Committee. The PC had to evaluate about 130 papers; a bit more than 100 are uploaded to the conference system now. Let's hope that this large congress will take place next summer.

In case of Eindhoven/ICOHTEC digital, I acted as chair of the PC. We received and evaluated more than 200 papers for the Eindhoven symposium, about 190 were accepted. After the Program Committee has finished his work and preparation of the whole event was nearly done, the development of the CORVID crisis forced us to find a new solution for this conference on crisis and technology. The LOC invited us to go digital as one of the first international conferences in the humanities. Following the result of an evaluation, we did together with the LOC, about 75

participants of ICOHTEC Eindhoven had been interested in such a digital event. Thus, we decided to change to a digital symposium, which will have this size. Participants of the Eindhoven meeting, who prefer to postpone their presentation, are invited to participate in ICOHTEC 2022.

We want to offer all parts of a normal ICOHTEC symposium in a digital format. Of course, this approach is limited by technology, especially in case of the social program. The scientific program is easier to handle. Highlight will be the Kranzberg lecture of our past president James Williams.

The Prize session will take place as well. For the scientific sessions we recommended short talks of about 10 min, since sitting in front of a screen is much more demanding than attending a conference. Since the whole event is to some degree experimental, we encouraged the chairs and their panelists, to try different formats of presentations. After the meeting we want to check if digital papers or sessions offered a fruitful alternative to real meetings and thus might be integrated to some degree, or if they remained a replacement. Thank you to all members who had been helpful to develop the concept and to organize ICOHTEC digital – especially to our hosts in Eindhoven!

Beside preparing the two conferences and normal duties I have given the annual report (and grant request) to our mother organization IUPS/DHST and we received grants by them. Since 2/3 of the grant is dedicated to travel grants for young scholars, we have to pay back a part of these grants. Concerning future meetings, there is still an option to visit Eindhoven in reality (depending on the capacity of the loc) and we received well-prepared invitations from Santiago and Tallinn. Depending on the past-COVID developments, we should make decisions on 2022 in spring of next year.

#### **Program Committee Eindhoven 2020**

- Stefan Poser GE (Chair)
- Francesco Gerali, IT
- Jan Hadlaw CA,
- Stefan Krebs LUX
- Jacopo Pessina IT
- Thomas Schütz DE
- Kamna Tiwary IND
- Erik van der Vleuten NL
- Artemis Yagou DE/GR
- Magdalena Zdrowska, PL

Stefan Poser

#### **ICOHTEC Treasurer Report, 2019 – 2020 (missing)**

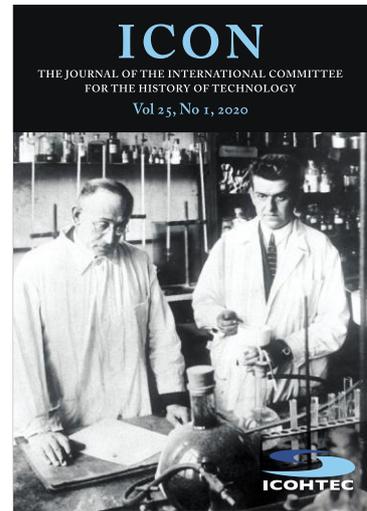
The treasurer failed for the second time to deliver his report.

#### **ICOHTEC ICON Editor Report, 2019 – 2020**

The issue of ICON for 2020 (volume 25, number 1) was published in July 2020 (at the time of writing on July 6, I have just sent the proofs to our authors). This year we decided to increase our presence by having two numbers (each with roughly half the content) rather than a single annual volume. This is a reaction in part to information from the Web of Science, that we can only be indexed when

we publish 20 articles per year (so our plan to get indexed, then expand has to be reversed – expand, then get indexed)

I was unable to get the text of the Kranzberg lecture to publish in ICON this year (unless it appears before December, but that will be after the next conference). This issue's essays, which were meant to be on the topic of last year's conference "technology and politics" weren't explicitly essays, so this section was dropped in favour of an extra research article. We have relatively few book reviews this issue, but a longer essay discussing literature on the history of technology in China. The number offers very interesting reading (150 pages of it), but none of its articles discuss technology outside Europe (East and West) except the review of literature about the Chinese. I already have a few submissions for December (number 2), including one on Africa.



150 copies of the journal will be sent out this July, but several services including JSTOR and EBSCO prefer to get it digitally. Alarmingly, I only have two paying libraries/institutions recorded: the Jan Turriano Foundation (and I don't think that they pay) and the Istituto E Museo di Storia della Scienza (the former Galileo library). This number was falling, but 2!

We have had one suggestion for a special issue on women and technology and another suggestion that the conference (history of technology in a time of crisis) might yield papers for a special issue (or at least a coherent thematic section). This has been advertised on the conference website. I will also write a piece for the Tensions of Europe newsletter, to make clear that we are a possible outlet for their work.

I consulted with JSTOR and there is no infringement of our contract with them if we make our issues freely accessible online, so I suggest doing this immediately for all issues after a 1 year embargo (which is the time before the content appears on JSTOR). This would allow members an advantage but then still make our work available to scholars around the world free of charge – a thing of increasing importance as libraries are ceasing to subscribe to the journal. The step to "open access" publication – which will be required by European funders starting in 2021 – will be only a change of copyright and allowing for immediate publication for authors who need open access publishing without embargo (which does not infringe our agreement with JSTOR.)

At the moment, copyright for articles in ICON stays with the authors, but open access requires a creative commons licence, namely CC BY. Plan S offers an exception for a CC BY ND licence if one applies to one's funder to be allowed it. This licence is much more to the liking of humanities scholars. "ND" means no derivatives: we have an apparatus for quoting other authors already, and allowing derivatives would mean that people can reproduce parts of our work without giving credit. I am currently researching the issue of meta-data and DOIs (identifiers that do not change), since we do not do this at the present. None of our articles has a DOI, but authors increasingly want this. The metadata is the information about articles that search engines and databases use, so until we do this the articles will remain "unfound" on many. It costs a little money to register for DOIs.

Hermione Giffard

## ICOHTEC Newsletter Editor Report, 2019 – 2020

The ICOHTEC Newsletter is published since the late 1980s first on paper format and following electronically. All the electronic versions are archived and available on ICOHTEC website: <http://www.icohtec.org/publications-newsletter.html>

ICOHTEC's Newsletter main tasks are:

- 1) To publish news about ICOHTEC meetings, summer schools and awards.
- 2) To give reports of conferences, book presentations, exhibitions, and relevant subjects of research.
- 3) To inform about what's new in the technology, science, environment and medicine history setting.
- 4) To give short summaries of recently published books in the sector.
- 5) To launch calls for manuscripts on behalf of *ICON*, the ICOHTEC peer-reviewed journal.
- 6) To promote digital humanities initiatives.
- 7) Promote ICOHTEC membership (the membership form is added to each issue) and subscription to our journal *ICON* for not members.

Francesco undertook the office of Newsletter Editor on July 2017 and worked at a new editorial line based on the diversification of the contents, the inclusion of selected news and information about the history of technology, science, medicine and environment from Latin America, Asia, and Oceania. New sections have been created to the NWSL, like, as example, "Digital Resources", "Open Sources", "Professional Development", and "Job Posting". The latter is intended to advertise faculty and post-doctoral positions, graduate and post graduate funds, and research fellowship programs at international level.

The NWSL is distributed by email to an extended network of scholars, both from the humanities and sciences, research program coordinators, librarians, archivists, and directors of research centers, foundations and museums. The NWSL reaches directly 312 professionals; it is sent to the server lists of the Canadian *Petrocultures* and a group of German scholars in the history of chemistry, which extends ICOHTEC visibility to some 1000 more scholars.

The NWSL has been receiving an increased number of spontaneous submission of contents from many not members and institutions to be featured in the monthly issues. This tells how ICOHTEC visibility is increasing and generating new important partners in higher education and popular science. On June 2020, Francesco agreed with the TICCIH newsletter editor to start the interchange of newsletters. ICOHTEC Newsletter will be tendered by TICCHI to their members, and vice versa. A similar agreement has been reached with the IEEE History Center of Hoboken (NJ, U.S.A.), the recipients of ICOHTEC NWSL will receive the IEEE H.C. Bulletin (quarterly). Implementing this experimental interchange activity, it is estimated that ICOHTEC visibility through the NWSL will growth of about 400% by 2021.

Francesco wants to thank all the past contributors that dramatically helped him to edit and diffuse high-quality information. The growth of the communication effectiveness of the NWSL is also your merit. You all are encouraged to utilize the NWSL as means of communication to inform the Technology History community on your latest projects, proposals and ideas.

Cordially  
Francesco Gerali

### **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).**

<b>Author</b>	<b>Title of PhD Dissertation or Book</b>	<b>Language</b>	<b>Country of Residence</b>	<b>Institution</b>
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
Aurélié 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 moderno a través de la actividad de la elite de artesanos en Buenos Aires (1776-1835).	Spanish	Argentina	Universidad de Palermo
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 Satellite 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 les jardins de La Granja de San Ildefonso	French	France	Lyon
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	Spanish	Chile	Pontificia Universidad Católica de Chile, Santiago de Chile

	Maipo y Mataquito (1790-1860)			
Nicolas Simoncini	Histoire de la recherche sur les piles à combustible en France des années soixante aux années quarte-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 quarte-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

**REPORT BY THE 2020 COMMITTEE FOR THE MAURICE DAUMAS PRIZE**

We received **19 applications**, 12 in English, 6 in French and 1 in German from **11 countries**, as the following table shows:

Author Names	Paper Title	Language	Country	Institution
1. Andreas Möllenkamp	The Digitalization of Musical Instruments and Musical Practice	English	Germany	University of Hamburg
2. Benjamin Bothereau	Adaptations et résistances au mode d'éclairage public parisien : les traductions différenciées de Barcelone et Madrid	French	France	Centre de Recherches Historiques (CRH Paris)

3.	Catherine Herr-Laporte	Rien ne sert de courir ; il faut partir à point » : temps et mobilité dans un long xviiiie siècle	French	France	University of Neuchâtel
4.	Claas Kirchhelle	The Forgotten Typers: The Rise and Fall of Weimar Bacteriophage-Typing (1921-1935)	English	Ireland	University College Dublin
5.	Cyril Lacheze	Pour une analyse systémique de la technique: exemple de la production de terre cuite architecturale	French	France	Pantheon-Sorbonne University
6.	Hugo Pereira	The Ambaca railway in Angola: history of a failed public-private partnership (1885-1914 and briefly onwards)	English	Portugal	CIUHCT – Faculty of Science and Technology, Universidade NOVA de Lisboa
7.	Jenny Bulstrode	Riotous assemblage and the materials of regulation	English	UK	University of Cambridge
8.	Juan M. Cano Sanchiz	Instruments of statecraft: Humphrey Cole, Elizabethan economic policy and the rise of practical mathematics	English	China	University of Science and Technology Beijing (China)
9.	Juan M. Durán	A Formal Framework for Computer Simulations: Surveying the Historical Record and Finding Their Philosophical Roots	English	The Netherlands	Delft University of Technology
10.	Luke Keogh	The Wardian Case: Environmental Histories of a Box for Moving Plants	English	Australia	Deakin University, Melbourne
11.	M Luísa Sousa	"The "Script" of a New Urban Layout: Mobility, Environment, and Embellishment in Lisbon's Streets (1850–1910)"	English	Portugal	CIUHCT – Faculty of Science and Technology, Universidade NOVA de Lisboa
12.	Marion Weckerle	Facture instrumentale et gestes : éléments pour la restitution historiquement	French	France	Université de Nantes

	informée du jeu de la clarinette en musique ancienne			
13. Matteo Paolieri	Paolo Chini: The Chemical Architect of Metal Carbonyl Clusters	English	Italy	University of Florence
14. Quintino Lopes & Elisabete Pereira	Armando de Lacerda and Experimental Phonetics in the Inter-war Period: Scientific Innovation and Circulation between Portugal, Germany and Harvard	English	Portugal	Universidade de Évora
15. Sabrina Kirschner	Grenzüberschreitende Zusammenarbeit im urbanen (Ab-) Wassersektor: Entwicklungspolitische Lösungsansätze für die (Ab-) Wasserprobleme São Paulos in den 1950er bis 1970er Jahren	German	Germany	-
16. Stephanie Ricker Schulte	United States Digital Service: How “Obama’s Startup” Harnesses Disruption and Productive Failure to Reboot Government	English	USA	University of Arkansas
17. Sylvain Roche	Transformer les vagues en énergie: utopie ou réalité ?	French	France	Université de Bordeaux
18. Wilmer Leal	Exploration of the chemical space and its three historical regimes	English	Germany	University of Leipzig
19. Yohann Guffroy	La mécanologie : une lignée technologique francophone ?	French	Switzerland	École polytechnique fédérale de Lausanne

The Maurice Daumas Prize Committee signaled a significant number of papers as contributors to originality, relevance of the content, interesting figures, clear writing, relevant conclusions and contribution for the discipline. The panel pointed out many papers well researched, structured and written, richly argued, good theoretical framework based on an impressive corpus of sources and published in respected journals. Some of them represent original and consistent research, based on the range of various materials and evidence. From the general perspective the papers are good enough to being considered, and their contribution for the History of Technology is estimated as high. The range of topics presented focuses on and covers several areas such as: transnational technological networks; relationship between government and private enterprise, early modern

history; history, current events and future of wave energy; the emergence of the notion of timetable and delay during a long 18th century in France, Switzerland and England, i.e. before the advent of the railways; the urban land market, transport networks, drinking water supply or waste water disposal; the study of the musical instruments industry in the course of digitalization; the early history of phage-typing and its meaning for bacteriological diagnosis in Germany; archeological methods in the history of transportation; approach to the analysis of the chemical spaces using mathematical tools.

This year (2020), the Committee has decided to award an **honorarium/diploma** prize, besides the **ICOHTEC Maurice Dumas Article Prize 2020**, to the papers in second and third positions. Thus, the **ICOHTEC Maurice Dumas Article Prize 2020 (the twentieth)** will be awarded to: **Luke Keogh**, Senior Curator at the National Wool Museum in Geelong, Australia, for his paper “The Wardian Case: Environmental Histories of a Box for Moving Plants” published in 2019 in *Environment and History*, 25, 219-244.

**Luke Keogh’s article** is a very interesting and engaging analysis of the role of artifacts, in particular the Wardian case, in making humans into a force of botanic change and global migration. Through a complex analysis of a seemingly simple artifact and the historiography around it, the author identifies an unsuspected driver of world history in the global age. The article provides a good attempt to put a story of the Wardian box into the discourse on mobility and Anthropocene. It’s original and well written. At a largest scope, the colonial, economic, scientific and the technical issues are smartly defined. Methodologies and approaches from the history of technology heavily influenced the Wardian case project. The paper was inspired by the “use-based history” of both Ruth Oldenziel and Mikael Hard, *Consumers, Tinkerers and Rebels: The People Who Shaped Europe* (Basingstoke: Palgrave, 2013) and also David Edgerton, *The Shock of the Old: Technology and Global History Since 1900* (London: Profile, 2006). Although Ward’s story is certainly one of “innovation” by taking a longer and global view the story of the Wardian case is also one of use and practice.

The 2<sup>nd</sup> and 3<sup>rd</sup> Prizes (**Honorarium**) will be awarded to Marion Weckerle and Jenny Bulstrode, respectively.

**Marion Weckerle** is a PhD candidate in History of technology at the Paris 1 Panthéon-Sorbonne University. **Marion Weckerle**’s paper “Facture instrumentale et gestes : éléments pour la restitution historiquement informée du jeu de la clarinette en musique ancienne”, published in 2019 in *Cahiers François Viète*, Série III – N° 6 , 109-131, is a highly original contribution to three fields: the history of technology, the history of music, and historical informed interpretation. The novelty lies precisely in the interdisciplinary intersection between these three fields, which could become a landmark for further collaborations between them. Particularly bold is the aim at improving current practice in musical interpretation employing up-to-date conceptual tools in the history of technology, which enable the author to see the historical archives and artifacts with the eyes of the historian of technology, the ears of the historian of music, and the hands and lungs of the clarinet interpreter. Weckerle does a very convincing and systematic analysis of its sources.

**Jenny Bulstrode** is a [Junior Research Fellow at Jesus College](#), University of Cambridge, carrying out postdoctoral research on climate change in the [Department of History and Philosophy of Science, HPS](#), with a particular focus on globalisation and fossil capital. **Jenny Bulstrode**’s paper “Riotous

assemblage and the materials of regulation”, published in 2018 in the *Journal History of Science*, 56 (3) 278–313, is impressively researched, a profound study of the glass and its role in the wide context of standards, fiscal policy, and market regulations. The author sets intriguing research questions and welcomes to follow the (hi)story of the artifacts supporting it with various visual materials and data. The article is exemplary of Jenny’s interest in using materials and processes to connect detailed microhistories with global consequences and universal claims in the study of [art, industry, and science](#).

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Maria Elvira Callapez

### I.3 DUMAS PRIZE WINNERS: LUKE KEOGH AND JENNY BULSTRODE

[Luke Keogh](#) is a historian and curator with research interests in plants, technology and environmental science. He is currently Senior Curator at the National Wool Museum, Geelong, Australia, and Honorary Fellow at Deakin University, Melbourne.



#### The Wardian Case

In 1829, the surgeon and amateur naturalist Nathaniel Bagshaw Ward accidentally discovered that plants enclosed in airtight glass cases could survive for long periods without watering. The Wardian case, a simple portable greenhouse used for moving plants, revolutionised the movement of plants around the globe.

After the first experiment, the cases were used for over a century. In the cases, plants had greater chance of survival when in transit. The case was a botanical technology that facilitated plant movements around the globe with significant commercial, industrial and environmental consequences.

The case is an artefact of a period in global environmental change that is of great importance. In the nineteenth and early twentieth century, humans using Wardian cases facilitated major plant migrations across the globe, it also came with many consequences such as invasive species. In this paper I focus on the Wardian case as a “box” for moving plants. Boxes and cases have largely been neglected as important movers of species and ecologies in much environmental history and technological history.

This paper was part of a much larger project on the global environmental history of plant mobilities. The book based on the project [The Wardian Case](#) is published by University of Chicago Press in October 2020.



*Wardian case in use at the Botanic Garden at Roseau, Dominica, 1932. Photo courtesy Archives of the Fairchild Tropical Botanic Garden.*



**Dr Jenny Bulstrode is [Lecturer in History of Science and Technology](#) in the Department of Science and Technology Studies, University College London. Before joining UCL in July 2020 Jenny began a [Junior Research Fellow at Jesus College, University of Cambridge](#), carrying out postdoctoral research on climate change in the [Department of History and Philosophy of Science, HPS](#), with a particular focus on globalisation and fossil capital. Most recently Jenny was awarded the American Academy of Arts and Science [2018 Sarton Prize for the History of Science](#). Prior to this award she held research fellowships at the Greenwich National Maritime Museum and the Royal Observatory, respectively considering cultural and technical histories of metal. Her recently completed doctoral research in [HPS, Cambridge](#), charted the global role of geomagnetic research in the age of reform and Atlantic revolution. In July 2020 she joins [Science and Technology Studies, University College London](#) as Lecturer in History of Science and Technology.**

She has worked on a number of experimental reconstruction and analysis projects, winning grant funding to lead technical and archival research into [glass balance-springs for nineteenth century precision timepieces](#), and [magnetic instrumentation in the whaling industry](#), as well as the opportunity to act as technical assistant on the reverse-engineering of bronzes recently attributed to [Michelangelo](#). In 2014, her research into flints and paper in the [industrial origins of experimental archaeology](#) won the British Society for the History of Science [Singer Prize](#). In addition, she has previously been employed as researcher for the Arctic Catalogue Project at the Polar Museum ([Blogs 1-8](#)), and to edit and update a survey of early modern optical glass working hosted by the [Whipple Museum](#).

Jenny's submission to the Maurice Daumas Prize 2020 is one of the outputs of the grant funding to lead technical and archival research into nineteenth century glass springs mentioned above. Published in open-access peer-reviewed journal *History of Science* in 2018 under the title '[Riotous Assemblage and the materials of regulation](#)', the article considers the curious application of elastic glass to the construction of chronometer springs. By bringing together new archival research with experimental analysis conducted at the Royal Observatory Greenwich and collaboration with the British Museum to carry out the first-ever technical analysis of the extant nineteenth century glass springs, 'Riotous assemblage' links the microscopic analysis of materials to rich cultural associations and global consequences. The specificity of glass and a sophisticated array of sources and methodologies, from tales of Cinderella and Newcastle mobs to X-ray spectrographic technical analysis, are drawn together to show the entangled emergence of state and market capitalism in the origins of free trade imperialism. The article is exemplary of Jenny's interest in using materials and processes to connect detailed microhistories with global consequences and universal claims in the study of [art, industry, and science](#).

## II. OPEN SOURCES: PERIODIC TABLE OF VIDEOS

The University of Nottingham School of Chemistry hosts the "[Table of Periodic Videos](#)" [research group](#), which is coordinated by Research Professor [Sir Martyn Poliakoff](#) and benefits of the expertise of Mr. Brady Haran, journalist and science communicator.

Their work, available @ <http://www.periodicvideos.com/>, is a reliable source of information on the foundations, basic aspects and practices of chemistry. The technical language used in these videos is very clear and allows the listener to learn not common chemistry science terminology. The general format and stylistic choices utilized to create the videos are sober and engaging. This is an [online](#), free, and constantly updated educational tool of sure benefit to those not yet knowledgeable in chemistry, but interest in getting literate in the discipline.

### III. FORTHCOMING CONFERENCES: HISTORY OF COMPUTING IN THE RUSSIA, FORMER SOVIET UNION AND COUNCIL FOR MUTUAL ECONOMIC ASSISTANCE COUNTRIES

Fifth International Conference

*“History of Computing in the Russia, former Soviet Union and Council for Mutual Economic Assistance countries”*

Russia, Moscow, October 6th–8th, 2020

<https://www.sorucum.org/en/>

The conference will be held in Moscow Higher School of Economics on October 6–8, 2020 to follow traditions of the first four SORUCUMs. The conference is aimed at retention of the history of design and development of computers, software and information systems. Key historical events and outstanding persons are also in the focus of SORUCUM. **Working languages:** Russian, English (synch translation).

#### Conference Topics

- History of computing devices – from mechanical calculators to supercomputers;
- Programming languages and systems in retrospective;
- History and evolution of artificial intelligence;
- Microelectronics in Russia;
- Programming – the second literacy;
- Software and hardware teams and organization;
- Key events in the history of computing;
- Biographies and memoirs;
- Social aspects of the history of computing;
- Evolution of Internet;
- Computing perspectives;
- International scientific cooperation.

#### Head of Organizing Committee

**Igor Agamirzyan**, vice-president of Higher School of Economics, Moscow;

#### Deputy Heads

**Vasily Burov**, Higher School of Economics, Moscow;

**Eduard Proydakov**, Virtual Computer Museum.

#### Organizing Committee Members

- **Boris Saltykov**, President of Polytechnical Museum, Moscow;
- **Vladimir Kitov**, Plekhanov Russian University of Economics;
- **Petr Chachin**, PC Week/RE, Moscow;
- **John Impagliazzo**, ACM Association.

#### Organizing Committee Secretary

**Natalia Cheremnykh**, Virtual Computer Museum.

Program Committee Chair

**Alexander Tomilin**, Ivannikov Institute for System Programming, Moscow.

Secretary of Program Committee

**Irina Kraineva**, A.P. Ershov Institute of Informatics Systems, Novosibirsk.

Program Committee Members

- **Alex Bochanek**, Historical Consultant, Computer History Museum; Site Reliability Engineering Manager, Google CA, USA;
- **David Grier**, past president of IEEE Computer Society;
- **Costas Stasopoulos**, Director IEEE Region VIII;
- **Vyacheslav Gerovich**, Massachusetts Institute of Technology, Boston, USA
- **Gennady Egorov**, INEUM;
- **Victor Zakharov**, Federal Research Center “Computer Science and Control”, RAS, Moscow;
- **Alexey Lipatov**, “Vega”, Moscow;
- **Boris Malashevich**, expert, Virtual Computer Museum;
- **Alexander Marchuk**, A.P. Ershov Institute of Informatics Systems, Novosibirsk;
- **Yury Polyak**, Central Economics and Mathematics Institute, Moscow;
- **Sergey Prokhorov**, S.I. Vavilov Institute for the History of Science and Technology RAS, Moscow;
- **Marina Smolevitskaya**, Polytechnical Museum, Moscow;
- **Ksenia Tatarchenko**, Technology and Society Singapore Management University;
- **Valery Shilov**, Higher School of Economics, Moscow;
- **Vitaly Shteinberg**, ARGON, Moscow;
- **Jose Ramil Alvares**, Moscow State University, Faculty of Computational Mathematics and Cybernetics.

#### IV. DIGITAL WORKSHOPS

##### **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 24<sup>th</sup> 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](mailto: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 21<sup>st</sup> 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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## V. CALL FOR PROPOSALS: SPECIAL ISSUES OF CENTAURUS

As the Official Journal of the European Society for the History of Science, *Centaurus* regularly publishes issues dedicated to a special theme. Recently published or in press special issues include:

- Artisanal Culture in Early Modern Iberian and Atlantic Worlds
- Skulls and blossoms: natural history collections and their meanings
- Fun and Fear: the banalization of nuclear technologies through display
- Technology and Information Propagation in a Propaganda War
- The Periodic System: The (Multiple) Values of an Icon
- Editorship and the Editing of Scientific Journals, 1750–1950
- Histories of epidemics in the time of COVID-19

The ESHS and the Editorial Board of *Centaurus* are now soliciting proposals for **2022** and **2023**.

Proposals should include the following:

1. A description of the topic of the Special Issue and its significance (approximately 500 words).
2. A list of 5 to 12 contributions: please include title, author names and article abstract.
3. A brief CV of the guest editor(s).
4. A schedule of production (date of first submission; peer review; revisions; final version).

*Centaurus* is growing, and special issues can now be larger than before. More than 175 pages (85,000 words) are available for a special issue, and the size of the issue can be negotiated with the editor. Any topic that falls within the scope of the journal can be chosen. See the website of the journal at: <http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291600-0498>

For more detailed information for authors, see the author guidelines at:

<https://onlinelibrary.wiley.com/page/journal/16000498/homepage/forauthors.html>

We are especially looking forward to receiving proposals for interdisciplinary special issues.

The committee selecting the special issues will be composed of representatives of the *Centaurus* editorial board and the ESHS. Criteria include the quality, innovative character and interest of the proposal, the expertise of the guest editor(s), the expertise and diversity of the authors (gender and geography), and the coherence and feasibility of the project.

**Deadline:** proposals should be sent to the editor (at the address below) no later than **September 30, 2020**. The results of the selection process will be announced in November 2020.

If you cannot make this deadline, please send a note to the Editor, and it may be possible to negotiate a different deadline. Ad hoc proposals will also be considered, but proposals sent in response to the Call for Special Issues will receive priority.

Sincerely yours,

Koen Vermeir, Editor of Centaurus

[EiC.Centaurus@zoho.eu](mailto:EiC.Centaurus@zoho.eu)

## 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)<sup>1</sup> 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 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 history<sup>2</sup>. 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

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

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

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”<sup>3</sup> 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-year-old 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’ 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](mailto:jth.editor@gmail.com). Submissions after this deadline are also welcome, and they can be delivered to <https://journals.sagepub.com/author-instructions/JTH>

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<sup>3</sup> 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.

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 Universität Berlin, Germany

**Michael Bess**

Centro de Investigación y Docencia Económicas, 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

## 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 13<sup>rd</sup> International Conference on History of Chemistry (13ICHC) will be held in Vilnius (Lithuania), from the 18<sup>th</sup> to the 22<sup>nd</sup> 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: 18<sup>th</sup> to the 22<sup>nd</sup> 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



Universiteit  
Leiden

UNIVERSITEIT TWENTE.



rijksuniversiteit  
groningen



BRILL



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

### DFG-Graduiertenkolleg GRK 2073, *Integrating Ethics and Epistemology of Scientific Research*

Leibniz University Hannover seeks 1 Postdoctoral Researcher (f/m/d), 100%, TV-L E13, in Ethics of Science and/or Philosophy of Science within the *Graduiertenkolleg* (research training group) GRK 2073 “Integrating Ethics and Epistemology of Scientific Research”. The position will be located at the Institute of Philosophy at Leibniz University Hannover and is available from 1 January 2021.

We are offering a full-time position as a *Wissenschaftliche/r Mitarbeiter/in* (research assistant) on salary scale TV-L E13. (This amounts to a monthly net salary roughly between 2250€ and 2550€, plus benefits such as health insurance.) The position will be offered for the full length of the project and is limited to 30 September 2024.

GRK 2073 “Integrating Ethics and Epistemology of Scientific Research” is a research training group that is established as a joint project by Leibniz University Hannover and Bielefeld University. It is funded by the German national funding agency (DFG). Its research program aims at bridging the gap between practice and theory in the philosophical investigation of scientific research in two ways: firstly, it examines new connections between practical philosophy of science (ethics of science, political philosophy of science) and theoretical philosophy of science (epistemology, metaphysics); secondly, it analyzes relevant links between the material culture of the sciences (objects, equipment, experiments, practices) and the cognitive dimension of the sciences (theories, hypotheses, discourses, models). The working language of GRK 2073 is English. Applicants must hold a PhD in philosophy or HPS (or a similar program) and should be fluent in English. They should have completed their doctoral research on a topic from philosophy of science and/or ethics of science. They must specify a research project that fits into research program of GRK 2073 as described above. The successful candidate will be required to conduct their own research that contributes to the research program of GRK 2073, to participate in peer learning groups and other training activities, to contribute their services to the governing board of GRK 2073, and to provide advice and feedback to the GRK’s PhD candidates. It is expected that the successful candidate take residence in the Hannover region.

Applications should be sent by e-mail to [admissions@philos.uni-hannover.de](mailto:admissions@philos.uni-hannover.de) and must be received by **30 September 2020**. Please consult our application guide for information on the application procedure: <http://grk2073.org/apply>

For informal enquiries please contact Leonie Wiemeyer ([leonie.wiemeyer@philos.uni-hannover.de](mailto:leonie.wiemeyer@philos.uni-hannover.de)).

Leibniz University Hannover aims to promote women within the scope of the statutory provisions and, hence, emphatically invite qualified women to apply for these positions. Severely disabled applicants will be given preferential consideration in the event of equal qualification.

**Postdoctoral Fellowship  
Public Energy Humanities (2021)  
Transition in Energy, Culture and Society (Future Energy Systems)  
and the Petrocultures Research Group  
Application Deadline: September 15, 2020**

In conjunction with “Transition in Energy, Culture and Society” (TECS), a multi-year research project within Future Energy Systems (based at the University of Alberta and affiliated with the University of Waterloo), we are offering a one-year postdoctoral research fellowship (January 2021-December 2021). Junior scholars engaged in work across the disciplines who will have defended their dissertations within the three years prior to the start of the position (i.e., between January 2018 and December 2020) and whose research falls within the range of issues mapped out by the theme of this fellowship are welcome to apply. This year’s fellowship brings together two emergent developments in advanced research within the humanities and social sciences: investigations of the interrelation of energy, society, and culture (i.e., research in the field known as the ‘energy humanities’), and expanded attention to inventive modes of research that foreground engaging and interacting with publics beyond the academy and communicating research findings creatively within the wider public sphere. We seek a postdoctoral researcher who has shaped their research in an active and dialogic relationship with communities and publics, with specific attention to the social and cultural shifts and transitions required to support successful energy transition. While we are seeking candidates who have already made public work a key element of their programs of research, we are also interested in receiving applications from junior scholars who are at the outset of programs of research in the public humanities. Fellows will be expected to contribute to the ongoing work of TECS, especially in relation to the expansion of its initiatives in the public humanities, but will be able to devote the majority of their time to the continuation of their own research projects. Depending on institutional resources, there may be an opportunity for this fellow to teach a one-term undergraduate class, for which they would be compensated in addition to the base amount of the fellowship.

Interested applicants can learn more about the kinds of research we pursue at <http://petrocultures.com> (note: this site is currently being redeveloped) and <http://afteroil.ca>, and about Future Energy Systems, the research network within which “Transition in Energy, Culture and Society” is carried out, at <https://www.futureenergysystems.ca>. Please include:

- (1) a cover letter describing your PhD project, the date of your PhD defense, and the fit of your proposed postdoctoral research with the theme of this PDF;
- (2) a full CV, including the names and contact information of three individuals who may be contacted for reference letters;
- (3) a PDF proposal (of no more than 1000 words); and
- (4) a writing sample (20 pages or less).

Send these materials, either as .docx or .pdf, to [tecspublic@hotmail.com](mailto:tecspublic@hotmail.com). Make sure to specify “[last name first name] TECS PDF application” in the subject line.

### **Center for the History of Women Philosophers and Scientists**

2 postdoc positions pay grade 14 TV-L are available in the project founded by the German Research Foundation DFG "Historical Critical Digital Edition of the Manuscript Version of Émilie Du Châtelet's "Institutions de physique" (deadline: 20.09.2020).

For more, please visit our webpage, or:

- <https://www.uni-paderborn.de/fileadmin/zv/4-4/stellenangebote/Kennziffer4347.pdf>
- <https://www.uni-paderborn.de/fileadmin/zv/4-4/stellenangebote/Kennziffer4347Englisch.pdf>
- 

CENTER HISTORY OF WOMEN PHILOSOPHERS & SCIENTISTS

Profn. Drn. Ruth E. Hagengruber

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## IX. Join ICOHTEC

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## **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.**

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- Through a cheque. Send the check with the appropriate sum made out to "ICOHTEC" and send to:  
Timo Myllyntaus, Turku School of Economics, Rehtorinpellonkatu 3, R. 313, 20 500 Turku,  
Finland

**After filling the form, please send by email to Timo Myllyntaus, ICOHTEC Treasurer at [timmyl@utu.fi](mailto:timmyl@utu.fi) and to Stefan Poser, Secretary General of ICOHTEC at [poser@hsu-hh.de](mailto:poser@hsu-hh.de).**