The sound of the Higgs Boson: [https://youtu.be/1GWsdqCYvgw](https://youtu.be/1GWsdqCYvgw)

*The correct visualization of the Higgs Boson may depend by the video settings and the technical specifications of your device. To receive further information on the best way to view the Higgs Boson please check [here](https://www.icohtec.org).*
Newsletter of the International Committee for the History of Technology - ICOHTEC

Editor: Francesco Gerali, 2020 IEEE Pugh Visiting Scholar, IEEE History Center, NJ, United States. Mail to fgerali@ou.edu

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I. ICOHTEC
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The annual journal of ICOHTEC founded in 1995, ICON publishes articles, review essays and book reviews on all aspects and periods of technological history by members and non-members. It encourages research of a transnational character focused on global technologies and seeks to encourage cooperation between scholars across national or political boundaries.

ICON is available via JSTOR, EBSCO as well as ICOHTEC’s website through the Members personal page. 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.

Table of Contents of the Most Recent Issues:
Volume 23 (2017)
Volume 22 (2016)
Volume 21 (2015)
Volume 20.2 (2014)
Volume 20.1 (2014)
Volume 19 (2013)
Past issues will be available soon.

How to Submit
ICON welcomes submissions of around 6,000-8,000 words, and particularly encourages submissions from authors for whom English is not their first language. All papers are chosen by peer review, using a double-blind process, and authors will be given editorial assistance to improve clarity and vigor of written expression.

A typical issue of the journal is about 200 pages long, contains ten to twelve papers and comprises:
- papers based on original research
- specially invited papers on the history of technology and on interdisciplinary connections with other fields of research
- conference reports
- book and journal reviews
- evaluation of museum exhibits
- bibliographical reports

Check our Guidelines for Contributors and feel free to contact ICON’s Editor, Hermione Giffard, for more information. ICON’s Publication Ethics and Publication Malpractice Statement explains the standards of expected ethical behaviour for all parties involved in the act of publishing: the author, the journal editor, the peer reviewer and the publisher. They are based on COPE’s Best Practice Guidelines for Journal Editors. For a free sample issue click here.

ICON Editor in Chief
Hermione Giffard, Ph.D.
Utrecht University, Utrecht, The Netherlands
editor@icohtec.org
II. PRIZES: HISTORY OF THE HUMAN SCIENCES EARLY CAREER PRIZE 2020-21

History of the Human Sciences – the international journal of peer-reviewed research, which provides the leading forum for work in the social sciences, humanities, human psychology and biology that reflexively examines its own historical origins and interdisciplinary influences – is delighted to announce details of its prize for early career scholars. The intention of the annual award is to recognise a researcher whose work best represents the journal’s aim to critically examine traditional assumptions and preoccupations about human beings, their societies and their histories in light of developments that cut across disciplinary boundaries. In the pursuit of these goals, History of the Human Sciences publishes traditional humanistic studies as well work in the social sciences, including the fields of sociology, psychology, political science, the history and philosophy of science, anthropology, classical studies, and literary theory. Scholars working in any of these fields are encouraged to apply.

Guidelines for the Award

Scholars who wish to be considered for the award are asked to submit an up-to-date two-page CV (including a statement that confirms eligibility for the award) and an essay that is a maximum of 12,000 words long (including notes and references). The essay should be unpublished and not under consideration elsewhere, based on original research, written in English, and follow History of the Human Science’s style guide. Scholars are advised to read the journal’s description of its aims and scope, as well as its submission guidelines.

Entries will be judged by a panel drawn from the journal’s editorial team and board. They will identify the essay that best fits the journal’s aims and scope.

Eligibility

Scholars of any nationality who have either not yet been awarded a PhD or are no more than five years from its award are welcome to apply. The judging panel will use the definition of “active years”, with time away from academia for parental leave, health problems, or other relevant reasons being disregarded in the calculation.
Prize
The winning scholar will be awarded £250 and have their essay published in History of the Human Sciences (subject to the essay passing through the journal’s peer review process). The intention is to award the prize to a single entrant but the judging panel may choose to recognise more than one essay in the event of a particularly strong field.

Deadlines
Entries should be made by Friday 29th January 2021. The panel aims to make a decision by Friday 30th April 2021. The winning entry will be submitted for peer review automatically. The article, clearly identified as the winner of the History of the Human Sciences Early Career Prize, will then be published in the journal as soon as the production schedule allows. The winning scholar and article will also be promoted by History of the Human Sciences, including on its website, which hosts content separate to the journal.

Previous Winners
2019-21’s winner was Danielle Carr (Columbia) for their essay, “Ghastly Marionettes and the political metaphysics of cognitive liberalism: Anti-behaviourism, language, and The Origins of Totalitarianism”. The committee also awarded a special commendation to Katie Joice (Birkbeck) for their essay “Mothering in the Frame: cinematic microanalysis and the pathogenic mother, 1945-67”. You can read more about these essays in interviews with Danielle and Katie on the journal’s website.

To Apply
Entrants should e-mail an anonymised copy of their essay, along with an up-to-date CV, to hhs@histhum.com.

Further Enquiries
If you have any questions about the prize, or anything relating to the journal, please email hhs@histhum.com.

Dr Chris Renwick
Senior Lecturer in Modern History
Department of History
University of York, Heslington, York
YO10 5DD
E-mail: Chris.Renwick@York.ac.uk
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.sorucom.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 SORUCOMs. 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 SORUCOM. 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;

Organizing Committee Secretary
Natalia Cheremnykh, Virtual Computer Museum.
IV. E-SCHOL@RSHIP IN THE

New initiative at the Center for Philosophy of Science, The Center Debates

“The Center Debates” is a new initiative of the Center for Philosophy of Science. Our goal is to promote serious, but respectful and constructive exchanges about controversial topics of interest to historians and philosophers of science, scientists, and the lay public. Typically, two speakers with a different perspective on a given topic are invited to debate; each gives a 20-minute presentation, followed by two 10-minute responses to the other speaker’s presentation. This exchange is then followed by a 30-minute Q&A. The first installment of Center Debates, “Fake News and Conspiracy Theories,” will take place virtually on TUESDAY, OCTOBER 6th at 12PM Eastern Time. Cailin O’Connor (UC Irvine), author of The Misinformation Age: How False Beliefs Spread, and Hugo Mercier (Jean Nicod Institute, CNRS), author of Not Born Yesterday: The Science of Who We Trust and What We Believe, will debate the impact of “fake news” and conspiracy theories. Why should we care about having true beliefs? And why do demonstrably false beliefs persist and spread despite consequences for the people who hold them? Or, on the other hand, are humans not as gullible as we think?
Registration for this event is **REQUIRED**. Please use this link to register:
https://pitt.zoom.us/webinar/register/WN_aS8mMTsATACl7_58bheBbQ

Edouard Machery, Director  
The Center of Philosophy Science  
University of Pittsburgh  
https://www.centerphilsci.pitt.edu/

**Science and Humanism • 6-7 November 2020 • Zoom (via the University of Miami)**

Registration (to receive a Zoom link) for the Science & Humanism Workshop, along with information on speakers, program, titles, and abstracts, is now available at:  

The workshop will explore connections between science and humanism through a discussion of overlapping issues concerning the viability of naturalism and the comparative status of scientific and other knowledge, the capacity or potential of scientism for setting limits on humanist self-understanding, the interplay between traditions or views of science and agendas of positive social change, promoting the common good through directions of research and/or institutional structures, managing the value-ladenness of science in ways that advance collective welfare, enhancing the public understanding of science and combatting science denialism, and increasing the uptake of scientific knowledge in government, the law, and public policy.

**With keynote presentations by:**  
Akeel Bilgrami (Columbia University)  
Matthew J. Brown (University of Texas at Dallas)  
Janet A. Kourany (University of Notre Dame)  
Gurpreet Rattan (University of Toronto)

**And contributed papers by:**  
Kareem Khalifa (Middlebury College)  
Alexandru Manafu (York University)  
Parysa Mostajir (University of Chicago)  
Ioan Muntean (University of North Carolina Asheville and Western Carolina University)  
Jamie Shaw (University of Toronto)

**Program Committee:**  
Elizabeth Cantalamessa (University of Miami)  
Anjan Chakravarty (University of Miami)  
Timothy D. Lyons (Indiana University–Purdue University Indianapolis)  
Gurpreet Rattan (University of Toronto)

Questions may be sent to Anjan Chakravarty at chakravarty@miami.edu.

Department of Philosophy, University of Miami, 1252 Memorial Drive, Ashe Building, Room 706  
Coral Gables, Florida 33146, United States  
https://anjanchakravarty.com/
14 OCTOBER 2020
Ruben Verwaal (Durham): ‘Fluid Deafness: Earwax and Hardness of Hearing in Early Modern Science’

Abstract: This talk discusses hearing disability in early modern science and presents Enlightenment medicine as part of a profound shift in thinking about deafness. Scholars have already described changes in the social status of the deaf in eighteenth-century Europe, pointing at clerics’ sympathy for the deaf and philosophers’ fascination with gestures as the origin of language. Yet few historians have examined the growing interest in deafness by physicians. From the seventeenth century onwards, natural philosophers and physicians researched varieties in ear wax, discovered fluids in the Eustachian Tube and cochlea, and developed new theories about the propagation of sound waves via so-called fluid airs. This paper proposes that the renewed focus on the fluids brought about a new understanding of auditory perception, which reconstructed hearing and deafness not in terms of a dichotomy, but in terms of a grading scale.

28 OCTOBER 2020
Hayley Clatterbuck (Wisconsin-Madison): ‘Darwin’s causal argument against creationism’

Abstract: In the Origin of Species, Darwin vacillates between two incompatible lines of attack on special creationism. At times, he argues that functionless traits are evidence against special creation, as we would expect a designer to create traits that are useful for their possessors. At other times, Darwin argues that special creationism is explanatorily vacuous, for any possible observation is compatible with some putative intention of the designer. However, in later works, Darwin turns to an argument against creationism—and indeed, against the possibility of design in
nature more generally—that he finds much more compelling. He argues that the variations which arise are random with respect to fitness and hence there is no designer. I will examine why Darwin found this argument much more compelling than the ones in the Origin and will suggest that it is because it can be made from general causal principles alone, rather than having to reason about the intentions or capacities of a creator. I will use tools from today’s causal modeling frameworks to examine whether and why this argument from random variation succeeds.

Abstract: With a few notable exceptions, commentators have systematically observed striking similarities between French geneticist François Jacob’s The Logic of Life – A History of Heredity (1970) and Michel Foucault’s The Order of Things (1966) and The Archaeology of Knowledge (1969). There are grounds for thinking that Jacob was indeed influenced by the work of his colleague at the Collège de France: rejecting a linear view, Jacob proposed a discontinuous framework whereby each historical period is delineated by profound transformations in the nature of biological knowledge itself. He further attended to the “various stages of knowledge” he identified and how they enabled the study of new “objects” in biology, thanks not only to the development of instruments but to new ways of looking at the organism. Unsurprisingly, Foucault praised The Logic of Life as “the most remarkable history of biology ever written” and even used it as a confirmation of his own archaeological approach. This Foucauldian reading, although pervasive, is far too simple and is at best incomplete, however. But if Foucault isn’t the main intellectual source behind Jacob’s best-selling book, then who is? And why did Jacob—a Nobel Prize winner—suddenly turn into a historian of biology? In this talk, I advance a new narrative in order to make sense of The Logic of Life. Drawing on archival material from the Institut Pasteur in Paris, I will argue that the book is best characterized as a response to Jacques Monod’s biological vision of scientific growth. According to Monod, ideas in science follow a logic of mutation and selection, a view rejected by Jacob on the grounds that it takes evolutionary principles beyond their rightful domain. This crucial difference between Jacob and Monod, I will show, can shed new light on the opposition between “history of ideas” and “history of objects”. I will further argue that Jacob’s change in laboratory organism in the late 1960s was an important impetus in writing the book. Only in loosening Foucault’s grip and in situating The Logic of Life within its own cultural context can we hope to critically assess the promises and the limitations of Jacob’s historiographical legacy.

Abstract: I will introduce a novel conceptual framework for the analysis of scientific modelling. The framework will be used to distinguish and comparatively analyse three different ways of model construction: vertical from covering theory and empirical knowledge about a given target system; horizontal through the systematic variation or transfer of existing models; and diagonal through a combination of vertical and horizontal construction steps. I will then apply this framework to analyse the construction of Deep Learning Algorithms and will argue that they can be interpreted as the automated, vertical, bottom-up construction of a sequence of scientific models.
Furthermore, I will maintain that the practice of transfer learning can be interpreted as horizontal model construction.

9 DECEMBER 2020, Jimena Canales (Illinois): ‘Science and the History of Non-Existent Things’

Abstract: What does not or does not yet exist plays a predominant role in science and technology. Discovery, either when considered as a process of uncovering or of creation, involves the bringing into existence of the new. As scientists search for answers and solutions, they are often confronted with problems and paradoxes that seem to escape from the realm of reason. The cause of such mischief is often anthropomorphized, called a demon, and given the last name of famous scientists, such as Descartes, Laplace, and Maxwell. The antechamber of discovery is not, as is frequently thought, an inscrutable “private art” marked by punctual “Eureka!” moments. It is a rich cultural, social, economic and political space filled with imaginary perpetrators with recognizable characteristics that have remained fairly constant throughout many centuries. A study of the half-empty glass of scientific research reveals certain patterns in the search terms that drive discovery.

V. FOURTH BIANNUAL EENPS CONFERENCE (EENPS 2022)

Call for the expression of interest to host the Fourth Biannual EENPS conference (EENPS 2022)
We invite expressions of interest in hosting the Fourth Biannual EENPS (East European Network for Philosophy of Science) conference.
The EENPS conferences are organised biannually, starting from the Inaugural one in 2016 that was organised in Sofia. We are seeking a host for the conference that will be held in the year 2022. The EENPS conferences attract the highest-level recent work in the philosophy of science from the members of the network and worldwide.
The Expression of Interest for hosting the EENPS conference has to be sent to the Steering Committee (SC) of EENPS before 31 December 2020 and should contain the following elements:
1. A declaration that the travel and accommodation expenses for at least two keynote speakers, reception and coffee breaks will be covered by the host;
2. A description of the venue, providing evidence that it is suitable for holding a conference of at least 50 participants and that it is supplied with presentation equipment;
3. A suggestion for a Chair of the Local Organising Committee (LOC). The Chair of the LOC should be a member of EENPS;
The SC will announce its decisions about the host of the next EENPS conference, the Chair of LOC and the two co-Chairs of the Program Committee (PC) on 01 February 2021. The two co-Chairs of the PC should be members of EENPS and should not be from the same country of residence. The co-Chairs of the PC, together with the members of the SC, will suggest potential members of the PC. The SC will decide on the final list of the PC, which should contain at least 12 members. No more than two PC members should be from the same country of residence.
The co-Chairs of the PC will be responsible for:
1. Suggesting members of the PC;
2. The supervision of the evaluation of all submissions by the PC members according to the established blind-review procedure of EENPS;
3. Deciding on the final list of accepted papers. When assembling the final list, the PC co-Chairs should follow the practice of non-discrimination and should aim at a gender and geographical balance without making compromises with the quality of the accepted papers;

4. Creating the conference program (in cooperation with the Chair of LOC).

The Chair of the LOC will be responsible for:

1. Securing the necessary funding for the EENPS conference;
2. Deciding on the members of the LOC (optimally 5 to 7 persons);
3. Drafting and disseminating the CFP texts;
4. Deciding on the keynote speakers which should be chosen from a list suggested by the SC;
5. Receiving the submissions and preparing them for a blind review;
6. Drafting and disseminating the preliminary as well as the final program of the conference with a close cooperation with the PC co-Chairs;
7. Communicating with the prospective and approved participants in the conference;
8. Preparing practical information for the participants in the conference.

**Important dates:**
Deadline for submitting the Expression of Interest: **31 December 2020.**
Communicating the decisions to the candidates: **01 February 2021.**
Please, send your Expressions of Interest to: eenphilsci@gmail.com

VI. CALLS FOR MANUSCRIPTS

**Building Transport History Ontologies** - **extended to 5 November 2020**

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 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\(^2\). 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

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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 5 November 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 Investigacion y Docencia Economicas, 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

Special issue in Studies of History and Philosophy of Science, Part A, on the topic “Pursuitworthiness in Scientific Inquiry”

The special issue will be co-edited by Dunja Šešelja (TU Eindhoven) and Jamie Shaw (University of Toronto). Deadline for submissions: May 1, 2021.

The topic of pursuitworthiness in scientific inquiry received a lot of attention throughout the last decades of the 20th century. While this theme draws its roots from Peirce’s ‘economy of research’ and discussions that followed Reichenbach’s distinction between the context of discovery and
the context of justification, pursuitworthiness became an explicit topic of philosophical accounts in the post-Kuhnian literature. Starting from Laudan's (1977) ‘context of pursuit’, to McMullin’s (1976) ‘heuristic appraisal’, to Anne-Whitt’s (1992) ‘indices of theory-promise’ different accounts aimed at explicating ways of evaluating the promising character of scientific inquiry. The importance of distinguishing the ‘comparative evaluation of problem-solving efficiency and promise’ and the ‘evaluation of completed research’ (Nickles 1980) remained central to subsequent philosophical debates: from discussions on the role of values in scientific research, to the literature on scientific pluralism, to debates concerning particular controversies in empirical sciences, to epistemological discussions on the norms underlying the process of inquiry – to mention only some examples.

Even though the topic of pursuitworthiness continues to play a central role in contemporary philosophical debates, its treatment remains scattered across different problem-fields. Whether we are tackling the pursuitworthiness of theoretical frameworks such as string theory in physics, projects concerning the risks and safety from a future artificial intelligence, exploratory models in biomedical sciences, or highly idealized models in social sciences, several issues remain constant across these debates. With this volume, we aim to bring these discussions together and provide an overview of the current outlooks on the pursuitworthiness in various scientific inquiries. At the same time, we aim to reexamine the actuality of the traditional philosophical accounts in face of novel problems and challenges. Altogether, we welcome submissions on:

• questions about the distinctive epistemic norms operative in the assessment of pursuitworthiness in various scientific disciplines
• formal approaches to the assessment of pursuitworthiness
• the pursuitworthiness of different epistemic units (such as hypotheses, models, theories, research programs, epistemic objects, etc.)
• the role of values in the context of pursuit
• the relevance of traditional accounts of pursuitworthiness in contemporary philosophical debates, etc.

Please submit your paper via the Editorial Manager (VSI: Pursuitworthiness in Science), prepared for anonymous review by May 1, 2021. The manuscript should not exceed 10,000 words. Please let one of us know if you have any questions. Contacts: d.seselja@tue.nl; jshaw222@uwo.ca

Sincerely,
Dunja and Jamie
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 13th 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 Molecular Life 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).

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.

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.


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.
- #shareyourknowledge #collectandconnect

Kind regards,

The Organizing Committee

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

California Institute of Technology (Caltech) - Assistant Professor of the History of Technology

The Division of the Humanities and Social Sciences at the California Institute of Technology (Caltech) invites applications for a tenure-track position in the history of technology, beginning Fall 2021. The appointment will be at the assistant professor level; however, exceptionally well-qualified applicants at higher levels may also be considered. The specific area and period is open, but we would like to find a candidate who is able to handle technical, cultural, and economic aspects of the subject, including connections to the history of science, even if their own concentration leans more to one aspect or the other. We are seeking highly qualified candidates who are committed to a career in research and teaching. The term of an untenured initial appointment is four years and is contingent upon completion of the Ph.D. degree. Interested candidates should apply electronically at: https://applications.caltech.edu/jobs/historytech.
Applications should include a cover letter, research statement, CV, teaching statement, three letters of recommendation, and a writing sample. Applicants should submit a diversity and inclusion statement that discusses past and/or anticipated contributions to improving diversity, equity, and inclusion in the areas of research, teaching, and/or outreach. The deadline for applications is December 1, 2020.

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity, or national origin, disability status, protected veteran status, or any other characteristic protected by law.

Fellowships and Postdocs at the Center for Philosophy of Science

The Center for Philosophy of Science at the University of Pittsburgh invites applications for Fellowships supporting visits in the Center for a term or an academic year during the academic year 2021-2022. Applications are due by December 15, 2020, and can be submitted electronically here: https://www.centerphilsci.pitt.edu/fellow-application/

Application documents required:
(1) A cover letter that indicates a Visiting Fellowship is sought and describes: the period of proposed residence in the Center; the source and amount of likely funding; an indication of need for supplementary funds; and note previous fellowships at the Center.
(2) A description of the project to be undertaken during residence (500-1000 words).
(3) A curriculum vitae.
(4) A sample of (or internet link to) your written work.
(5) Letters of reference from three knowledgeable scholars. We recommend letters whose content is blinded to the applicant, and sent to Alex Magee via email (amm279@pitt.edu).

For further details, visit the Center’s Website https://www.centerphilsci.pitt.edu
Visiting Fellows Program Overview: https://www.centerphilsci.pitt.edu/programs/visiting-fellows/program-overview; Postdoctoral Fellowship Overview: https://www.centerphilsci.pitt.edu/programs/postdoc-fellowships/program-overview/

We particularly welcome submissions from members of underrepresented groups in philosophy of science. We also would like to remind you that instead of being limited to two semesters during your entire career, Visiting Fellows can now visit the Center for at most two semesters every ten years. The Center has invited Heather Douglas to be the Senior Visiting Fellow for the academic year September 2021 - April 2022. We encourage applications for Visiting Fellowships from scholars whose research intersects with Professor Douglas.

Please see our website for more details: https://www.centerphilsci.pitt.edu/

Edouard Machery, Director
Center for Philosophy of Science
University of Pittsburgh
University of Oulu, University lecturer in philosophy

The University of Oulu announces the following opening: University lecturer, philosophy, open-ended contract starting 1 January 2021, or as agreed.

The University of Oulu is an international science community that promotes skills of the future, wellbeing and culture through multidisciplinary research and education. Renewal, responsibility and a culture of collaboration provide a solid foundation for all our operations. There are approximately 15,000 students and 3,000 employees at our University. We offer a working environment where individuals can cultivate their skills, do meaningful work, and develop professionally. The strengths of the University of Oulu include its broad multidisciplinarity and modern study and research environment, as well as its close collaboration with international research and education institutes.

Working environment

Philosophy is taught as a minor in the Faculty of Humanities within the subject of History of Sciences and Ideas, whose staff consists of two professors, three university lecturers and one university researcher. One professor and one university lecturer represent the field of philosophy. The History of Sciences and Ideas belongs to the Research Unit for History, Culture and Communication Studies. Due to its status as a minor subject, there is no direct student intake for philosophy. A large number of students who take the minor come from the Faculty of Humanities, but there are representatives from all the faculties of the University. A significant proportion of philosophy students go on to work as teachers.

At the University of Oulu, it is possible to study philosophy at basic and intermediate levels. In addition, one of the two master’s level study lines taught in the History of Sciences and Ideas, namely history culture and philosophy, focuses on the philosophy of history.

Also, The Centre for Philosophical Studies of History, a research unit specialising in the philosophy of history, is part of the Faculty of Humanities at the University of Oulu. Besides its other scholarly functions, the Centre is the editorial office of the Journal of the Philosophy of History. In addition to the traditional philosophy of history, the philosophy of history as conceived at the Centre comprises studies of the relationships between history and philosophy in general, such as the philosophy of the historiography of science. A more detailed description is available on the Centre’s agenda: https://www.oulu.fi/sites/default/files/content/files/Centre_Agenda_alkuosa.pdf

Discipline and related responsibilities

During their 1,612 working hours per year or in accordance with a separately agreed annual working time plan, the selected university lecturer will be expected to conduct academic research, offer high-quality research-based teaching, supervise and review theses, and handle administrative duties pertaining to the subject and faculty. The university lecturer is primarily responsible for implementing minor studies together with the professor of philosophy. He or she is also expected to support the teaching of history culture and philosophy in the master’s line. The university lecturer teaches three to five courses per year. They can be seminars or lecture modules. Applicants are required to have a research speciality and teaching competence in the fields required by the unit. With regard to research speciality, the university lecturer is expected to strengthen the current research profile of the unit. The field of speciality can be one or several of the following or a similar field: analytical or other philosophy of history; philosophy of the historiography of science;
history and philosophy of science; as well as philosophical questions related to conceptual and intellectual history. The university lecturer must be able to teach at least two of the following: ethics, political philosophy, theory of knowledge, philosophy of science, philosophy of language, or be able to teach introduction to philosophy. This entails the ability to plan and teach courses concerning the abovementioned themes. Teaching can be provided in Finnish or English. The appointed university lecturer must acquire at least a moderate proficiency in Finnish within two years of the appointment.

**Remuneration**
The wages of a university lecturer will fall within wage levels 5–7 for teaching and research personnel in accordance with the university payment plan. In addition to the task-specific wage element, the university lecturer will receive a wage element based on personal performance, which may be a maximum of 50% of the task-specific wage element. At the beginning of the employment relationship, the salary is typically approximately EUR 3,400–4,700. A trial period of six months applies to the position.

**Qualifications**
A doctorate and the ability to provide high-quality teaching are prerequisites for the university lecturer. Particular attention is paid to the following: extensive knowledge of the field, research experience in the applicant’s own field of speciality, the ability to produce both national and international academic publications, and the ability to produce teaching materials and teach in a flexible and innovative manner. We are also interested in new research visions and ideas on how to develop the teaching of philosophy. The applicants will be asked to prove their teaching skills in a demonstration lecture. When assessing applicants, the factors to be taken into account are their academic work, familiarity with the field, teaching experience and pedagogical training. If the successful applicant has not completed studies in university pedagogy or equivalent studies by the time the employment relationship begins, they are expected to undertake a minimum of 25 credits of such studies within two years of the appointment. The qualification requirements are based on the University of Oulu guidelines that entered into force on 1 January 2016.

**Applying for the position**
Please submit your application and the required appendices via our electronic application form by 9 October 2020 (23.59 Finnish local time)

**Contact information**
For inquiries about the application process, please contact Professor Jouni-Matti Kuukkanen, tel. +358 294 483 203 Email: jouni-matti.kuukkanen@oulu.fi

**The following appendices must be included**
I) A short curriculum vitae
II) A list of publications
III) Your teaching merits relevant to the position in the form of a teaching portfolio or a similar report. Applicants should adhere to the format presented below
IV) A brief description of your research merits applicable to the position and a letter of motivation, max. 3 pages
V) A brief research plan, max. 3 pages

**Demonstration lecture and interview**
The applicants deemed most competent may be invited to offer a demonstration lecture on a subject matter in the field of the open position, to be separately determined. Alternatively, they may be offered the opportunity to orally present their views regarding development of the position.

**TEACHING PORTFOLIO FORMAT**
1) Teaching philosophy and characterisation of yourself as a teacher
2) Your practical teaching experience and development of teaching
3) Feedback on your teaching (student assessments, peer group evaluations, awards and approved demonstration lessons)
4) Your vision for the development of teaching (a brief description of how you plan to develop your teaching and teaching work in the near future in relation to the curriculum of the subject, for example)

To apply:
https://rekry.saima.fi/certiahome/open_job_view.html?did=5600&lang=en&id=00009748&jc=1

Jouni-Matti Kuukkanen
Professor in Philosophy
Department of History of Sciences and Ideas
The University of Oulu, FIN-90014, Oulu, Finland
Tel. +358 294483203
The Centre for Philosophical Studies of History, http://www.oulu.fi/centreforphilosophyofhistory/

**Postgraduate funding opportunities in History and Philosophy of Science and Medicine at Cambridge, 2021-22**
The Department of History and Philosophy of Science at the University of Cambridge is the largest of its kind in the UK, and has an unrivalled reputation for teaching and research. Staff have expertise in the history and philosophy of a wide range of sciences and of medicine. If you are interested in studying for an MPhil or PhD in History and Philosophy of Science and Medicine at Cambridge, you will find everything you need to know about the Department, the courses, the academic staff <https://www.people.hps.cam.ac.uk/index>, and the application process on our website https://www.hps.cam.ac.uk/study/postgraduate. The Department offers two MPhil options: an MPhil in History and Philosophy of Science and Medicine <https://www.hps.cam.ac.uk/study/postgraduate/mphil-hpsm> and an MPhil in Health, Medicine and Society <https://www.hms.hps.cam.ac.uk/> (taught jointly with Social Anthropology and Sociology) as well as the PhD https://www.hps.cam.ac.uk/study/postgraduate/phd. For those considering a PhD, the Department will hold an online workshop as part of the University's Virtual Postgraduate Open Days, which run from 2 to 15 November. Led by the Director of Graduate Studies, the workshop will explain our admissions requirements and procedures. Advice will be provided on finding a workable topic and potential supervisors, writing a convincing proposal,
securing references and applying for funding. To book a place on the Open Days, please go to https://www.postgraduate.study.cam.ac.uk/events/postgraduate-open-day.
To see the sorts of careers our PhD students go into, please see https://www.hps.cam.ac.uk/study/postgraduate/phd/placement-record.

Students applying to start an MPhil or PhD in 2021-22 have access to the following studentship opportunities:

✓ Cambridge Trust Scholarships
✓ Arts and Humanities Research Council (AHRC) Studentships
✓ Gates Cambridge Scholarships
✓ HPS Trust Fund Bursaries for all MPhil and PhD students
✓ Wellcome Trust Awards: for HMS MPhil and PhD (students with a focus on human or animal health) If you wish to be nominated for one of these awards please indicate this on your application form.

To be eligible for these awards you will need to submit your postgraduate application by 12 noon on 3 December 2020. US applicants, please note the early deadline (14 October) for Gates Cambridge Scholarships, which are available for PhD and Mphil.

All applicants will automatically be considered for an HPS Trust Fund Bursary. Initial offers of funding will be made in February, and awards will continue to be allocated until the application deadline has been reached, or all the available funding has been committed.

For more information on these and other awards available through the Department, please visit https://www.hps.cam.ac.uk/study/postgraduate/funding. For more general information on funding opportunities available to postgraduate students at the University of Cambridge: https://www.postgraduate.study.cam.ac.uk/funding. For further information about graduate study at HPS in Cambridge: hps-admin@lists.cam.ac.uk

The Institute Vienna Circle Fellowships
The maximum length of a fellowship is six months. Normally a fellowship pays €1800 brutto per month (approx. €1500 netto). Successful applicants will not normally reside in Vienna already. The on-going Covid-19 pandemic might make it difficult for us to guarantee all fellows full-time office space. The application procedure is as follows:

(1) Applicants send the following documents to office.wienerkreis@univie.ac.at:
   a. CV with list of publications
   b. expose of the research to be undertaken during the fellowship
   c. two letters of recommendation
   d. certificates of academic degrees

(2) The heads of the IVC consider the applicants together with current members of the IVC.

(3) The heads of the IVC, together with the Dean, decide on the basis of the application papers and the consultation (2).

(4) Applicants are informed about the success or failure of their application.
The application process is from **October 6th to 27th, 2020**; and we are considering applications for the six months from March 1st, 2021. We expect the fellows to:

- be present in Vienna during the fellowship period
- give a talk, if possible
- write a short written report about the research done at the IVC

Best wishes – and stay safe,
Prof. Martin Kusch (he or they), University of Vienna, Department of Philosophy and Institute Vienna Circle. [http://homepage.univie.ac.at/martin.kusch/index.html](http://homepage.univie.ac.at/martin.kusch/index.html)

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### The Library Company's Innovation Fellowship Program

#### Francis Johnson Fellowships

This program that has been in development for more than a year, will pair two short-term research fellows—one humanities scholar and one creative practitioner—to critically and creatively engage a collection integral to the Library Company’s mission, values, or institutional history. The Innovation Fellowship Program is an extension of our more than 30-year-old fellowship program. Fellows will be encouraged to deepen research questions using the Library Company's historical collections, to work closely with curatorial staff, and to leverage Philadelphia's extensive network of arts and cultural heritage institutions. Complementing the Library Company's short-term research fellowships, the Innovation Fellowship Program will use our existing infrastructure as a residency program to accommodate artists and scholars who can contribute to our learning community and bring new tools, methods, and questions to our collections; providing academic humanists with new models of publicly-engaged scholarship; and enabling the Library Company to excavate core collection areas that illuminate the library's institutional history in advance of its tercentennial in 2031.

The Innovation Fellowship Program will unfold over multiple years. This year, the Library Company invites submissions for our inaugural Innovation Fellowships, the **Francis Johnson Fellowships**. The Johnson Fellowships will support two fellows—a humanities scholar and a creative practitioner—as they delve into the compositions of one of the most popular black composers prior to the American Civil War. These paired fellows will be encouraged to explore a manuscript book of 80 compositions (some unpublished) in conjunction with printed materials held at both the Library Company and at the Kislak Center at the University of Pennsylvania. Each Francis Johnson Fellow will receive a stipend of $5000, a $2500 research fund to be defined by the fellow and program director, and lodging at the Library Company's Cassatt House residence for four to eight weeks. The Library Company will also cover each fellow's travel expenses (up to $500). Both fellows will be featured at the Library Company's 290th Annual Dinner (attendance encouraged) and interviewed for the library's podcast, Talking in the Library.

We welcome proposals from creative practitioners and scholars in all fields and at all career stages, including graduate students; contingent, junior, and senior faculty; as well as independent scholars and freelance artists. The Library Company anticipates individual applications; however, if an applicant has already identified their prospective collaborator, they may submit a team application. To apply for a Francis Johnson Fellowship, please send a proposal (no more than 1000
words) plus a preliminary budget and timeline, resume or c.v., and one letter of reference to w felon@librarycompany.org by March 1, 2021. Your proposal should include some discussion of your background, experience, and expertise with special attention to service and collaborative projects; interest in Francis Johnson or the Library Company's holdings; and project plan with timeline, budget, and deliverables.
IX. Join ICOHTEC

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

![ICOHTEC Logo]

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

Tick the years of membership to be paid: ☐ 2020 ☐ 2021 ☐ 2022 ☐ 2023

I submit the total amount: ________
Your first name and surname: ______
Email: ___________________________
Postal address: ___________________
Country: __________________________

Tick the method of your payment:

☐ Through international money transfer. Make international money transfer to: “ICOHTEC” at Commerzbank Bochum (Husemannplatz 3-4, D-44787 Bochum, Germany):
IBAN: DE44 4304 0036 0390 2590 00; BIC: COBADEFFXXX

☐ 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 and to Stefan Poser, Secretary General of ICOHTEC at poser@hsu-hh.de.