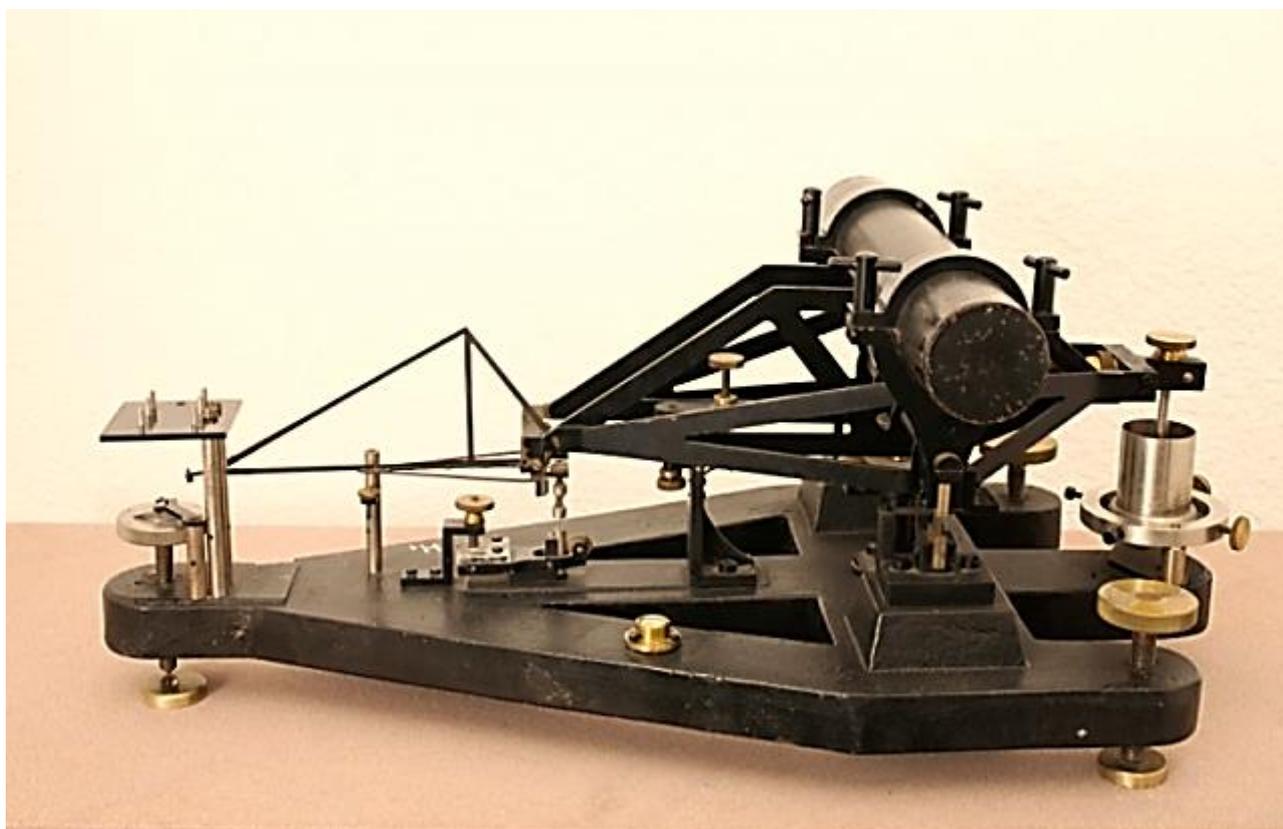


Portable field seismograph



Designed by Ludger Benedikt Mintrop in 1910, this innovative geophysical tool consisted of a horizontal pendulum with optical recording. This is one of the early seismic prospecting devices used by German petroleum companies.

[The Sound of the Seismograph](#)

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

I.1 26th International Congress of History of Science and Technology and the 48th Symposium of ICOHTEC go online

Dear Colleagues and Friends,

Due to the risks of a real meeting, the organizers of the 26th International Congress of History of Science and Technology, ICHST (25 – 31 July 2021), decided to organize the conference online. Since our next ICOHTEC symposium is part of ICHST we will meet online, too. The conference is scheduled on the same dates, announced for the real meeting.

It is in fact a pity that we have to meet online for the second time, but having the risk of a real meeting of such a huge number of participants in mind, there is no other chance, I think. We intend to run our symposium within this new frame including all elements of normal symposia as we did in Eindhoven digital already.

Some of our members suffered really hard due to the covid pandemic; for others it meant restrictions of their normal life. Let's hope that both will become history next year.

Stefan Poser
Secretary General

I.2 Maurice Daumas Prize - ICOHTEC's Article Prize: update

The *Maurice Daumas Prize* evaluation committee this year received 21 submissions - the highest number ever since the institution of the award. Proposals have been submitted in English, German and French from scholars representing eight nationalities, and are now under assessment.

ICOHTEC warmly thanks all the participants to the Maurice Daumas Prize 2020 Edition and the colleagues who contribute to diffuse the Prize call for submissions in their networks.

I.3 Obituary: Bruno Navarro (1977-2021)

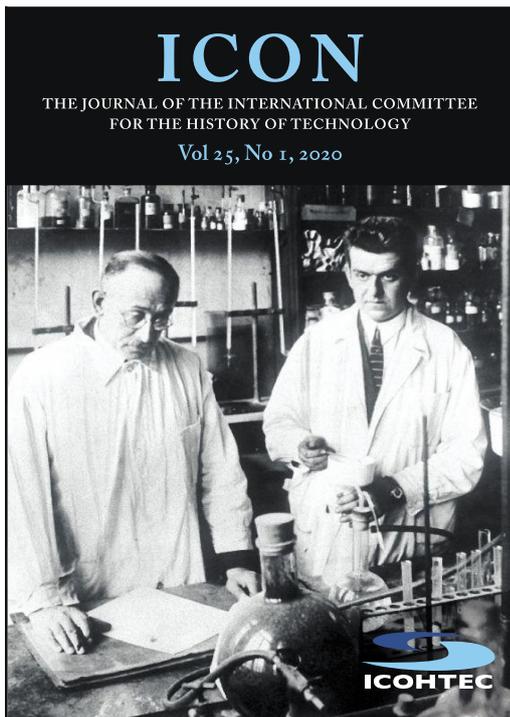


Our beloved colleague, friend, active and assiduous member of ICOHTEC passed away last Saturday, January 30, 2021, of a sudden illness. He was the president of Fundação Côa Parque (<https://arte-coa.pt/fundacao/>), since June 2017, a standing historian, researcher, and professor at several universities. He graduated in History from the Faculty of Letters of the Classical University of Lisbon, where he also did a master's degree in Contemporary History. His thesis on General Pimenta de Castro's government during the First Republic was published in a Parliament book and received several awards. Bruno Navarro later obtained his doctorate at the Faculty of Science and Technology of Universidade

Nova de Lisboa, with a thesis on the contribution of Portuguese engineering to the colonial empire's projection in the first decades of the 20th century. He was a researcher at Centro Interuniversitário de História das Ciências e da Tecnologia (CIUHCT) at Universidade Nova and the History Center at the Faculty of Arts of the University of Lisbon. He was also a visiting professor at the Instituto Superior de Ciências Educativas. In one of his presidency's recent initiatives with more great public visibility, Bruno Navarro managed to take to Foz Côa, last July, amid the 19 covid pandemics, the Secretary-General of the United Nations, António Guterres. It was a way to paying tribute to the former first Portuguese minister who, in January 1996, took the political decision to sacrifice the Energy of Portugal company (EDP) dam to safeguard paleolithic rock engravings. Bruno Navarro always had a smile on his face. Always cheerful, well-spoken, eloquent, very intelligent, excellent researcher, demanding academic and professional, right person, kind, openly friendly. It was effortless for him to praise, to recognize the other. The frank praise, the elegance of humor, was one of his great virtues. Always available for everyone! His colleagues, friends, family, wife, and children have extraordinary memories of him that will last forever! I will hardly forget Bruno, and I am sure that ICOHTEC, culture, and the country have lost an enormous citizen.

Maria Elvira Callapez

I.4 ICON



ICON, the biannual journal of the International Committee for the History of Technology, publishes papers covering all aspects and periods in the history of technology, but devotes special attention to the discussion of contemporary problems of technology in their socio-economic and cultural settings. The journal's goal is to foster co-operation amongst scholars from all parts of the world by providing timely review and circulation of ideas to an international audience of like-minded individuals.

ICON welcomes submissions from non-ICOHTEC members as well as members, 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. We publish research articles (6,000-8,000 words), research briefs (3,000 words), and biographies (2,000-4,000 words) in addition to our solicited book reviews.

Articles appearing in **ICON** are included in SCOPUS, America: History and Life, Current abstracts, Francis, Historical abstracts, PubMed, TOC premier, listed in the European Reference Index for the Humanities and are available via JSTOR. Please send your manuscripts (paper plus abstract) to the editor at editor@icohtec.org. For further information about format, please consult our guidelines on the ICOHTEC website (<http://www.icohtec.org/icon/guidelines-for-contributors/>).

II. 40 YEARS OF THE IEEE HISTORY CENTER

2020 was the [40th anniversary](#) of the IEEE History Center. Founded in 1980, the [IEEE History Center](#) preserves, researches, and promotes the history of information and electrical technologies.

The Center's digital resources are available online at the [Engineering and Technology History Wiki](#). The ETHW is administered by the Center on behalf of the [United Engineering Foundation](#) and technical society partners' historical collections. It contains an encyclopedia, oral histories, first-hand histories, Milestones and Landmarks of engineering and related fields, and many institutional records from the IEEE Archives.

The Center's physical holdings in New Jersey, USA, include the unpublished records of IEEE; a special library of related histories and subject files; a growing collection of historic textbooks and related publications; photographs relating to the history of electrical and computer technologies; and over 900 oral history recordings.

Historians who wish to share their findings on the history of electrotechnical change with a non-academic, technically literate audience are encouraged to submit [proposals to Proceedings of the IEEE](#), the organization's flagship journal. Published monthly, its [Scanning our Past section](#) offers an outlet for peer-reviewed history articles of 4,000 to 8,000 words, including references, acknowledgments, and about the author.

For historians of electrical, electronic, and information technologies, the IEEE History Center offers a variety of resources, ranging from prizes for scholarship and funded opportunities for research and writing to hundreds of oral and first-hand histories. The four competitive opportunities are as follows:

- Ω The [IEEE Life Members' Fellowship in Electrical History](#) provides \$US 25,000 plus \$US 3,000 for research to support either one year of full-time graduate work in the history of electrical science and technology at a college or university of recognized standing, or up to one year of post-doctoral research.
- Ω The [Elizabeth & Emerson Pugh Young Scholar in Residence](#) provides \$5,000 for research experience for graduate students in the history of technology and engineering. The scholar typically works full time for two months at the History Center on a Center project connected to his or her own area of interest.
- Ω The [IEEE William And Joyce Middleton Electrical Engineering History Award](#) of \$US 2,000 honors the author of a book in English or translated into English on the history of an IEEE-related technology. The book will exemplify both exceptional scholarship and an appeal beyond academic communities toward a broad public audience.
- Ω The [Bernard S. Finn IEEE History Prize](#) of \$US 1,000 is awarded annually for the best article on the history of the art or engineering aspects of electrotechnology and its practitioners that is published in a peer-reviewed journal during the preceding year.

Despite the pandemic, the IEEE History Center staff continue to work remotely. Any questions that cannot be answered from the websites and pages that are linked above can be directed to ieee-history@ieee.org. You can find the latest newsletter [here](#).

III. JOURNALS

Philosophy of Medicine

The mission of *Philosophy of Medicine* is to serve as the flagship journal for the field by advancing research in philosophy of medicine, by engaging widely with medicine, health sciences and the public, and by providing open-access content for all. Sponsorship for the journal is provided by the Center for Philosophy of Science. Website: <https://philmed.pitt.edu/philmed>

IV. E-SCHOL@RSHIP IN THE



Die Wärme künstlichen Lächelns: Roboter und Emotionen

Online lecture, Thursday, 4. March 2021, 17.30

Stefan Poser, Karlsruher Institut für Technologie, KIT

Lecture at VDI Berlin-Brandenburg and German Museum of Technology, Berlin. Please register for the lecture on the homepage of VDI Berlin- Brandenburg:

<https://www.vdi.de/ueber-uns/vor-ort/bezirksvereine/bezirksverein-berlin-brandenburg/veranstaltungen>

III Reconstruction and Restoration of Architectural Heritage Congress

Online from 24 to 27 March

St Petersburg State University of Architecture and Civil Engineering (St Petersburg)

Committee for State Inspection and Protection of Historic and Cultural Monuments of St Petersburg (St Petersburg)

<http://rran.spbgasu.ru/en/main-en/>

One of the 24 March sessions will consist of a mini-symposium on the history of construction jointly organised by the Technical University of Madrid and the Sociedad Española de Historia de la Construcción [Spanish society for the history of construction].

Target audience

university academic community, graduate and post-graduate students, practicing architects-restorers; Russian and foreign experts in the field of protection and restoration of architectural heritage objects and historical structures and reconstruction of historic environment.

About RRAH Conference 2021

RRAH 2021 is aimed at exchange of experience and development of strategy for enhancing educational process and practice of protection and restoration of cultural heritage.

RRAH 2021 Format

RRAH 2021 will be held online on the Zoom platform, prior registration to the conference is required. All the registered participants will get the link to access the online conference.

RRAH 2021 Working Languages

RRAH 2021 will be held in Russian and English. The simultaneous interpretation is provided.

The Conference Organizing Committee

- **Irina Drozdova**, CHAIRPERSON

DSc in Economics, Professor, Vice Rector for Science, St Petersburg State University of Architecture and Civil Engineering (St Petersburg)

- **Sergey Sementsov**, VICE CHAIRMAN

DSc in Architecture, Professor, Head of Department of Architectural and Urban Planning Heritage, St Petersburg State University of Architecture and Civil Engineering (St Petersburg)

- **Alexander Leontyev**, VICE CHAIRMAN

First Deputy Chairman, Committee for State Inspection and Protection of Historic and Cultural Monuments of St Petersburg (KGIOP), Professor, Department of Architectural and Urban Planning Heritage, St Petersburg State University of Architecture and Civil Engineering (St Petersburg)

- **Galina Fedotova** SECRETARY

Senior Lecturer, Department of Architectural and Urban Planning Heritage, St Petersburg State University of Architecture and Civil Engineering (St Petersburg)

Key Focus

- Analysis of the existing regulatory framework for the protection and restoration of cultural heritage in the Russian Federation, the CIS and foreign countries, as well as training of architects and restorers
- Analysis of current problems of educational process organization in the field of reconstruction and restoration of architectural heritage
- Analysis of restoration design practice and protection of cultural heritage
- Study of Russian and foreign experience in creating and functioning of historical objects and structures

Registration

Participation in RRAH 2021 is **free of charge**. Each RRAH 2021 participant/author fills in the registration form: <https://forms.gle/f3FZpkSphaSyYEGb8>

Deadline for RRAH 2021 registration is March 1, 2021

Reflecting Oil: Arts-Based Research on Oil Transitioning

The arts-based research project "Reflecting Oil", <https://www.reflectingoil.info/>, investigates the impact of the substance crude oil, and its connection with technical, economic, social and ecological aspects. "Reflecting Oil" aims to develop fresh perspectives to rethink the omnipresent, yet often elusive liquid crude oil in its material dimension as a chemical mixture, its real-world dimension as a geopolitical cause of conflict and pollution and its symbolic sociocultural dimension as a frontier myth-like object of desire. The project thus sets out to contribute to the transition to clean energy in an original way by illuminating crude oil through arts-based research methods.

"Reflecting Oil" uses a multi-method approach characterised by a series of artistic experiments, interdisciplinary reflection facilitated by our collaborative team, and dissemination through a diversified public outreach strategy, including an international colloquium, exhibitions, public talks and exhaustive documentation both online and in print.

Project partners:

- Department of Site-Specific Art, University of Applied Art, Vienna
www.ortsbezogenekunst.at

- Österreichischen Wissenschaftsfonds/ Austrian Science Fund (FWF) www.fwf.ac.at

- Department of Petroleum Engineering, Montanuniversität Leoben www.dpe.ac.at
- Petrocultures www.petrocultures.com

Hagley History Hangout

New episode is available in the Hagley History Hangout—In this episode, Gregory Hargreaves, Center Programming Officer, interviews Sara Wermiel about her research project “Introduction of the Rolled I-Beam in the U.S.A. in the 1850s, Revisited.” In support of her research, Wermiel, an independent scholar & historic preservation consultant, received a Henry Belin du Pont research grant from the Hagley Center for the History of Business, Technology, & Society. In “Introduction of the Rolled I-Beam,” Wermiel explores the development and adoption of the building section known as the “rolled I-beam,” a structural beam that in cross-section appears like a capital letter ‘I,’ and which is manufactured by a rolling process. Embraced as a replacement for wooden beams, iron (and later steel) I-beams played a central role in the advent of “fireproof” building construction, favored by institutional buildings such as banks and government offices. The focus of Dr. Wermiel’s project is the competition between early rolled I-beam makers, the Trenton & Phoenix iron firms, for market position and technical superiority. Dr. Wermiel used Hagley’s collections on the Phoenix Steel Corporation for a paper on the history of the I-beam presented at the Construction History Society of the U.K.’s meeting in April 2020. The paper is available, [digitally](#) and in [print](#). Interview available at <https://www.hagley.org/research/history-hangout-sara-wermiel>.

Recorded on Zoom and available anywhere once they are released, our History Hangouts include interviews with authors of books and other researchers who have use of our collections, and members of Hagley staff with their special knowledge of what we have in our stacks. We began the History Hangouts earlier this summer and now are releasing programs every two weeks on alternate Mondays. Our series is part of the [Hagley from Home](#) initiative by the Hagley Museum and Library. The schedule for upcoming episodes, as well as those already released, is available at <https://www.hagley.org/hagley-history-hangout>.

Energy-SHIFTS



The **Energy-SHIFTS Final Conference** on *Shifting the energy debate forward: innovations in the Social Sciences and Humanities for Green Deal delivery!* Your wide-ranging questions and insights made for a rich conversation. If you had to miss parts of the event, you will find the full recording now online [on our website](#). The slides that were shared during the conference are attached to this e-mail.

Launch of the Centre for Energy Ethics & the Art of Energy Event

25-26 Feb | Online | University of St Andrews

LAUNCH EVENT

Centre for Energy Ethics

25 February 2021
2pm GMT
Online

Discover how the Centre for Energy Ethics will prompt new visions of our energy future and how to get involved.

www.energyethics.ac.uk

ALL WELCOME

erc European Research Council

University of St Andrews

Photo courtesy of Kjetil Dybbene, Credits/Coauthors
The University of St Andrews is a charity registered in Scotland. 10618031200

The **Centre for Energy Ethics**, led by Dr Mette High, addresses one of the most urgent challenges facing humanity today: how to balance our energy demands with our concerns for anthropogenic climate change. Bringing together diverse areas of expertise, including researchers, industry, and communities, the Centre will offer a truly novel interdisciplinary and cross-sectoral environment for the study of energy and will include an Artist-in-Residence scheme.

In conjunction with the Centre launch, we will be hosting **The Art of Energy**. The Art of Energy seeks to reflect on our contemporary energy predicament through collaborations with artists. Attendees will have an opportunity to explore our virtual photography exhibits by three world-renowned photographers, listen to a sound performance by *pecq*, engage in a Q&A with the filmmakers of the 'End of an Era?' film, hear from our guest speakers, and join us in the reveal of the [Art Award](#) finalists. Attendance is free. For further event details and to register, please visit: www.energyethics.ac.uk.

Mette, Sarah, Sean and Anna
Co-organisers, on behalf of the Energy Ethics team

The Energy Humanities Project

[The Energy Humanities Project](#) is a commentary hub supported by the Petrocultures Research Group and the Transitions in Energy, Culture, and Society program. This is a quick update and reminder to check out some of the exciting work we have published over the past weeks, particularly from emerging researchers:

- Lynette Shultz and Carrie Karsgaard [discuss the International Youth Deliberation on Energy Futures](#).
- Deepthi Swamy [assesses the challenges facing India's solar energy efforts](#)

V. OPEN ACCESS

Directory of Open Access Journals

<https://doaj.org/>

DOAJ is a community-curated online directory that indexes and provides access to high quality, open access, peer-reviewed journals. All DOAJ services are free of charge including being indexed. It's essentially a search engine that allows you to look up over 15,000 open access journals on the internet. Journals on DOAJ cover all areas, in all disciplines. Journals in different languages from around the world can also be found on the site.

Technology's Stories: Chill Technologies

The latest issue of *Technology's Stories* is now available at www.technologystories.org

Chill Technologies

- Yeonsil Kang: [Cold War's Cold Legacy: Soyang Multipurpose Dam, the Local Environment, and Envirotechnical Development in South Korea](#)
- Jason L. Newton: [The Winter Workscape: Weather and the Meaning of Industrial Capitalism in the Northern Forest, 1850-1950](#)
- Jesse Ritner: [Chilling the Industry](#)

Feature essay

Jeffrey T. Manuel, [Technical Literature and the Text-Searchable: The History of Technology and the Digitized Turn](#)

Technology's Stories Editorial Team

Suzanne Moon, Gerardo Con Diaz, Kera Allen, and Mario Bianchini

VI. CALLS FOR MANUSCRIPTS

Call for thematic dossiers: HoST – Journal of History of Science and Technology (2022)

[HoST- Journal of History of Science and Technology](#) is an open access, on-line peer-reviewed international journal devoted to the History of Science and Technology, published in English by a group of Portuguese research institutions and De Gruyter/Sciendo. HoST encourages submissions of original historical research exploring the cultural, social and political dimensions of science, technology, and medicine (STM), both from a local and a global perspective. Past thematic issues have dealt with topics as diverse as circulation, science communication or the relation between science and politics. Future issues might deal with both established and emerging areas of scholarship. **The editors of HoST are looking for proposals for two thematic dossiers to be published in 2022** (HoST volume 16, issues 1 and 2). Each thematic dossier should be prepared by the guest editor(s) and include four research papers along with an introduction.

Proposals should include the following items:

1. An abstract describing the topic for the thematic dossier and its significance (500 words)
2. A list of the contributors along with the titles and abstracts (300 words) of the four research papers
3. Brief CVs (300 words) of the guest editor(s) and authors

The guest editor(s) and the contributors must be prepared to meet **HoST's publication schedule:**

- **Abstract and titles submission**
- **30 December 2020**
- Submission of complete research papers
- 30 July 2021 (Issue 1)
- 30 December 2021 (Issue 2)
- Publication
- June 2022 (Issue 1)
- December 2022 (Issue 2)

Proposals will be subject to approval by the Editorial Board and the outcome will be known to the authors by January 2021. Submissions should be sent as an e-mail attachment (preferably in one single .doc, .docx, .rtf or .odt file), to the chief-editor: chiefeditor@johost.eu.

Ancillary Review of Books (ARB)

[Ancillary Review of Books \(ARB\)](#) is a new publication for reviews, essays, reading lists, and reading recommendations that focuses on literature, culture, power, and speculation. Launched this October 2020, ARB seeks to address the radical possibilities of criticism. ARB is devoted to genre fiction, world literature, literature and media from below, cultural studies, and writing about systemic injustices and utopian impulses. A lot, yes, but we recognize that a great diversity of texts and genres intersect with the concerns of those who stand against injustice and for a better world. ARB is [edited by a collective](#) with one foot in academia and the other out. Most of us are contingent workers within the academy or former academics (what some term “alt-ac”) and all of us are interested in bringing good, critical thinking about SFF and cultural studies to a broader public. (For more on [why “Ancillary” Review of Books](#), read editor Laura Collier’s write up.)

[ARB publishes reviews, essays, retrospectives, essay series, recommendation and readings lists, and more](#), tailored to the overall goal of providing criticism that offers utopian responses to the realities of our collective histories, presents, and futures. We serve multiple writing communities—genre fiction, world literature, indie presses, comics, nonfiction, and so on, so long as the texts we review are about justice, power, and belonging—while also working with critics of all skill ranges to help them craft pieces they are proud of.

In addition to being led by a diverse editorial collective that makes group decisions on behalf of ARB, we also strive for a **transparent process of author selection** to combat the sense (and, too often, the reality) that professional criticism unfolds as an arcane, behind-the-scenes process. ARB provides information about commission history (including method, date, and editorial responsibility for the commission) at the bottom of each piece in order to hold ourselves **accountable to our audience and contributors**. And we also work hard to invite people of color, queer, disabled, and other folks to review work about them or by a member of their community, spearheading **#ownvoices reviews** in response to the publishing industry’s production of #ownvoices fiction. ARB seeks to build a community of radical thinkers writing about amazing, speculative, global writing.

We seek contributors, plain and simple, to grow our website dedicated to radical critiques of literature, culture, power, and speculation. We post regular lists of [“recommended” reads](#), which can also double as books we’re interested in having reviewed, and we also post occasional notes

about [books we have available for review](#). If you'd be [interested in writing for ARB](#) now or in the future, we'd love to hear what you're interested in writing about, so please reach out to us at [editors\[at\]ancillaryreviewofbooks.org](mailto:editors@ancillaryreviewofbooks.org)

VII. CALLS FOR PAPERS

Second CFA: 3rd Scientific Understanding and Representation (SURE) annual workshop

We invite authors to submit abstracts (**300-500 words**) prepared for blind review for the upcoming 3rd annual workshop **Scientific Understanding and Representation (SURE)**. Please, provide also information about your affiliation and contact details in the submission form. Submit your abstract via [EasyChair](#).

Submission deadline: 15 February, 2021

Notification of acceptance: 01 March, 2021

Conference dates: April 15-17, 2021

Keynote speakers

- Mary Morgan (London School of Economics)
- Soazig Le Bihan (University of Montana)
- Klaas Landsman (Radboud University)

Special Panel: Idealizations, Understanding and the Success of Science

- Collin Rice (Bryn Mawr College)
- Emily Sullivan (Eindhoven University of Technology)
- Christopher Pincock (Ohio State University)
- Kareem Khalifa (Middlebury College)
- Henk de Regt (Radboud University)

Conference Venue will be hybrid. In person portion will take place at:

Institute for Science in Society (ISIS), Radboud University, Huygens Building, Heyendaalseweg 135 6525 AJ, Nijmegen, The Netherlands.

The online portion will take place via some of the common platforms and all the in-person talks will be streamed online.

We will provide links in due course.

Workshop description

Representations play a central role in scientists' understanding of the world. From mathematical models to diagrams, different representations in highly varied contexts yield diverse insights across the physical, biological, and social sciences. Despite the fact that how a phenomenon is represented has far-reaching ramifications for how it is understood, the literatures on scientific understanding and scientific representation are largely independent of each other. The time is ripe to foster greater synergy between these two areas in the philosophy of science, as they face complementary problems—and hold the promise of complementary solutions.

For more information about the workshop series, go [here](#).

Important deadlines:

February 15, 2021 – Deadline for submissions.

March 01, 2021 – Notification of acceptance.

April 15-17, 2021 – Workshop.

Local Organizing Committee

Daniel Kostic (Co-Chair), Henk de Regt (Co-Chair), Luca Consoli, Vera Jansen, and Magda Speijers.

Society for the History of Alchemy and Chemistry

This is a reminder that the Society for the History of Alchemy and Chemistry invites submissions for the 12th Annual Postgraduate Workshop, to be held on June 3-4, 2021, 10am – 2pm EST. The deadline for submissions is **February 15th**, 2021. Please send a 200-300 word proposal along with your CV to SHAC Student Representative Alison McManus, at studentrep@ambix.org. This year's theme is "**Secrets of Matter, Matters of Secrecy: Concealing (al)chemical Knowledge from Ciphers to the Military Industrial Complex**". The keynote speakers are Michelle Murphy (University of Toronto) and Nancy Langston (Michigan Technical University). More information can be found [here](#). **Organizers:** Alison McManus, PhD Candidate, Princeton University Program in the History of Science; Sarah Hijmans, PhD Candidate, Université Paris Diderot; Sarah Lang, PhD Candidate, Karl-Franzens-Universität Graz

HaPoC 2021: Call for Abstracts. 6th International Conference on the History and Philosophy of Computing. 27-29 October 2021, ETH Turing Centre, Zurich, Switzerland

<https://hapoc2021.sciencesconf.org>; hapoc2021@sciencesconf.org

While computing appears as a technological and scientific field in constant progression, our conception and knowledge of computers are also subject to change over time. In particular, digital machines of the 20th century were inspired by the biological individual, replacing with a solipsistic mental view the cultural and social aspects attached to the image of machines in the 19th century. However, the growing cultural import of computing practices has become ever more pressing in our days in all dimensions of social life. Not only have cultural phenomena increasingly become the object of computational analysis, but computational practices have also proved inseparable from the cultural environment in which they evolve. Therefore, it is urgent to critically address the entanglement of computing practices with the main cultural challenges our epoch is facing. The global and collective nature of such problems (e.g. climate change, global pandemics, systemic inequalities, resurgence of totalitarianism, to name a few) requires a comprehensive perspective on computing, where social and cultural aspects occupy a central position. For these reasons, thinking about machines asks today for an interdisciplinary approach, where art is as necessary as engineering, anthropological insights as important as psychological models, and the critical perspectives of history and philosophy as decisive as the axioms and theorems of theoretical computer science.

For more than a decade, the "History and Philosophy of Computing" Conference (HaPoC, www.hapoc.org) has contributed to building such an interdisciplinary community and environment. We aim to bring together historians, philosophers, computer scientists, social scientists, designers, manufacturers, practitioners, artists, logicians, mathematicians, each with their own experience and expertise, to take part in the collective construction of a comprehensive image of computing.

Main Topics

For HaPoC 2021, we welcome contributions from researchers from different disciplinary horizons who intend to participate in the debate on the impact of computers on culture, science, and

society from the perspective of their area of expertise, and who are open to engage in interdisciplinary discussions across multiple fields. Topics include but are not limited to:

- Historical and philosophical perspectives on computing knowledge, objects and practices
- Social, cultural and pedagogical aspects of computing
- Computing and the human sciences
- Epistemological dimensions of computing
- Impact of computing technologies
- Computing and the arts

The Program Committee is available at the conference website:

<https://hapoc2021.sciencesconf.org/resource/page/id/4>

We cordially invite researchers working in a field relevant to the main topics of the Conference to submit a short abstract of 180-200 words and an extended abstract of at most 1000 words (references included) through EasyChair at: <https://easychair.org/conferences/?conf=hapoc2021>

Accepted papers will be presented in 30-minute slots, including discussion. Abstracts must be written in English. Please note that the format of uploaded files must be in .pdf. Submissions without an extended abstract will not be considered.

Important Dates

Submission deadline: April 15, 2021

Notification of acceptance/rejection: June 15, 2021

Conference dates: October 27-29, 2021

Confirmed keynote speakers

Barbara Liskov (MIT Computer Science & Artificial Intelligence Lab)

Juliette Kennedy (University of Helsinki)

Thomas Haigh (University of Wisconsin-Milwaukee)

Publication

A selection of revised contributions to the Conference will be published in a Special Issue of *Minds and Machines* (Springer), under the title “Computing Cultures”. The call is already available at:

<https://www.springer.com/journal/11023/updates/18800754>

Format and Fee

Due to the current pandemic situation, HaPoC-6 will take place in a hybrid format, with attendance and contributions both on-site and online.

Registration

The registration fee for contributors (both online and on-site) will be announced soon. Following previous HaPoC editions, a usual low fee is expected. Online contributions are expected to be in real time, although pre-recorded talks will be accepted on request. Attendance (both online and on-site) will be free of charge.

Travel Grants

The Turing Centre Zurich and the HaPoC Council will propose a limited amount of travel grants to participants with accepted papers who are not beneficiaries of institutional support. More information will be soon made available on the conference webpage and through the HaPoC website (www.hapoc.org).

Organizers

Juan Luis Gastaldi (ETH Zurich, Turing Centre Zurich)

Luc Pellissier (Université de Paris-Est Créteil)

Turing Centre Zurich (ETH), www.turing.ethz.ch

In collaboration with:

Collegium Helveticum (ETH-UZH-ZHdK) www.collegium.ethz.ch the Chair of History and

Philosophy of Mathematical Sciences (ETH Zurich, D-GESS) <https://hpm.ethz.ch>

Under the auspices of DHST/DLMPST Commission for the History and Philosophy of Computing (HaPoC) www.hapoc.org

Second CFA: 3rd Scientific Understanding and Representation (SURE) annual workshop

We invite authors to submit abstracts (**300-500 words**) prepared for blind review for the upcoming 3rd annual workshop **Scientific Understanding and Representation (SURE)**. Please, provide also information about your affiliation and contact details in the submission form. Submit your abstract via [EasyChair](#).

Submission deadline: 15 February, 2021

Notification of acceptance: 01 March, 2021.

Conference dates: April 15-17, 2021

Keynote speakers

- Mary Morgan (London School of Economics)
- Soazig Le Bihan (University of Montana)
- Klaas Landsman (Radboud University)

Special Panel: Idealizations, Understanding and the Success of Science

- Collin Rice (Bryn Mawr College)
- Emily Sullivan (Eindhoven University of Technology)
- Christopher Pincock (Ohio State University)
- Kareem Khalifa (Middlebury College)
- Henk de Regt (Radboud University)

Conference Venue will be hybrid. In person portion will take place at:

Institute for Science in Society (ISIS), Radboud University, Huygens Building, Heyendaalseweg 135 6525 AJ, Nijmegen, The Netherlands.

The online portion will take place via some of the common platforms and all the in-person talks will be streamed online.

We will provide links in due course.

Workshop description

Representations play a central role in scientists' understanding of the world. From mathematical models to diagrams, different representations in highly varied contexts yield diverse insights across the physical, biological, and social sciences. Despite the fact that how a phenomenon is represented has far-reaching ramifications for how it is understood, the literatures on scientific understanding and scientific representation are largely independent of each other. The time is ripe to foster greater synergy between these two areas in the philosophy of science, as they face complementary problems—and hold the promise of complementary solutions. For more information about the workshop series, go [here](#).

Important deadlines:

February 15, 2021 – Deadline for submissions.

March 01, 2021 – Notification of acceptance.

April 15-17, 2021 – Workshop.

Local Organizing Committee

Daniel Kostic (Co-Chair), Henk de Regt (Co-Chair), Luca Consoli, Vera Jansen and Magda Speijers.

BSPS 2021 Annual Conference: Call for Symposia

The Call for Abstracts is open for the [BSPS 2021 Annual Conference](#) in Kent on 7–9 July 2021. Submissions from graduate students and underrepresented groups are particularly encouraged. (Graduate bursaries will be available.)

The deadline for submitting symposium proposals is 15 February 2021.

List of Topics:

1. General philosophy of science
2. Philosophy of the physical sciences
3. Philosophy of the life sciences
4. Philosophy of the cognitive sciences
5. Philosophy of the social sciences
6. Formal philosophy of science
7. Integrated history, philosophy, and social studies of science
8. Science and values

Overview

A symposium should involve several presenters, typically 3-4, organised around a topic of interest. Symposia may be on any topic in the philosophy of science. A maximum of 90 minutes of space on the programme will be allocated to successful symposia. The symposia will be selected by the BSPS committee. The committee will strive for quality, variety, innovation, and diversity on the programme; ideally the programme will reflect the full range of current work in the philosophy of science. Symposia that make connections with, or include, working scientists are warmly invited. We will not be considering ‘Author Meets Critics’ sessions, but topical sessions that build upon recently published books are acceptable.

Instructions

Proposals must include sufficient supporting material to permit the committee to evaluate the quality and interest of the symposium. Proposals for symposia should include:

- The title of the proposed symposium
- A short descriptive summary of the proposal (100-200 words)
- A description of the topic and a justification of its current importance to the discipline (500-1000 words)
- Titles and abstracts of all papers, with 250-500 words for the title and abstract of each paper
- A list of participants and either an abbreviated curriculum vitae or short biographical description (not to exceed 1 page) for each participant, including any non-presenting co-authors.
- Institutional affiliation and e-mail addresses for all participants, including any non-presenting co-authors.
- Our current planning assumes that we will be able to hold the BSPS 2021 Conference face-to-face. If it turns out that this is not possible, we will hold this conference online instead.

- Please indicate in your application whether or not you will be willing to deliver your symposium in an online format.

Submission

Please submit your abstract through easychair: <https://easychair.org/conferences/?conf=bsps2021>
For further details visit: <http://www.thebsps.org/news/bsps-2021-annual-conference-at-the-university-of-kent-7-9-july/>

Rules for Acceptance

No one will be permitted to present more than once at BPS 2021. Thus, if a symposium proposal in which you are a presenting author is accepted, you cannot submit a contributed paper for which you are the presenting author. Commentators that are part of symposia are considered to be presenting authors. A scholar may appear as co-author on more than one paper or symposium talk, but may present at BPS 2021 only once. Any individual can be part of only one symposium proposal in which he or she is a presenting author. Note that this policy excludes the practice of being a presenting author for more than one symposium proposal and subsequently choosing to present in only one symposium if multiple proposals are accepted. If an accepted symposium subsequently loses participants, maintaining acceptance will become contingent upon the symposium organiser developing satisfactory alternatives to maintain the quality and coherence of the committee. All questions about submissions should be directed in the first instance to the conference organiser, Kirsten Walsh, at bspsconference2021@gmail.com.

2nd ESHS Early Career Scholars Conference

Science and its Enemies: Exploring Conflicts and Alliances in the History of Science

20-22 September 2021 in Athens, Greece

The Early Career Scholars Network of the European Society for the History of Science (ESHS) was founded to better integrate graduate students and early career researchers in the activities of the Society and in the field of History of Science. The first Early Career Scholars Conference was held in 2019 in Paris, and it continues to be organized biennially in different cities around the world. The second conference in the series is planned to be held on 20-22 September 2021 in Athens, Greece. Depending on the development of the SARS-CoV-2 pandemic, however, this plan might be subject to change.

We invite submissions for individual papers addressing the main topic of the conference: *Science and its Enemies: Exploring Conflicts and Alliances in the History of Science*. The terminology of “enemy” connotes “opponent”, “antagonist”, “adversary”, “rival”, or “competitor”, and thereby opens perspectives in various directions. This topic thus comprises a wide range of potential ‘enemies’ of science, including material, natural, supernatural, and ideological ones, and perhaps even science itself. Note that the main topic is meant as a guideline and does not serve as an exclusionary factor for the selection of papers. Any topic on the History of Science is welcome. Submissions by individuals from underrepresented groups are especially encouraged to submit an abstract. For more details, please visit our website: <https://eshsathens2021.wordpress.com/>

Confirmed keynote speakers:

Theodore Arabatzis (Professor of History and Philosophy of Science, University of Athens, ESHS President Elect)

Kostas Gavroglu (Emeritus Professor of History of Science, University of Athens)

Host institutions:

The National and Kapodistrian University of Athens

The National Hellenic Research Foundation

Conference Organizing Committee:

Beatriz Martínez-Rius (Sorbonne Université Paris), Jelena Stanulovic (University of Belgrade), Grigoris Panoutsopoulos (National and Kapodistrian University of Athens), Cosmin Koszor-Codrea (Brookes University, Oxford), and Benjamin Wilck (Humboldt University Berlin)

Submissions:

PhD candidates and Early Career Scholars (up to eight years after they obtained their PhD) in History of Science or related disciplines are invited to submit a proposal.

Individual proposals must include:

- an abstract up to 300 words, for a 20-minute presentation, and
- name and affiliation of the candidate.

Please submit all proposals via e-mail: eshs.athens.2021@gmail.com

Deadline for submissions: March 14th, 2021

Notification of acceptance: April 25th, 2021

Travel bursaries:

The ESHS offers a limited number of small travel funds for speakers who need financial aid. Applicants are asked to send, besides their abstract, a motivation letter (maximum one page) and a short CV. For more information, you may contact us via [Facebook](#), Twitter ([@EshsC](#)), or e-mail [eshs.athens.2021@gmail.com]

Fire Management in the Early Modern Age: Knowledge, Technology, Economy

16-17 September 2021, Université de Neuchâtel.

In the early modern age, the question of fire management was central to the evolution of scientific practices, including applied physics and chemistry, but also to the development of technology, especially in fields where the transformation of matter through heating played a central role, such as artisanal practices (brewing, glasswork, ferrous metallurgy) and cooking. In the technological sphere, the question of fire management was closely related to economic issues, since the technical organization of households, laboratories and manufactures had to comply with the management of material resources (materials, fuel) and the rationalization of time and labor (reducing the waste while enhancing productivity). The aim of the workshop *Fire Management in the Early Modern Age: Knowledge, Technology, Economy* is to reflect on the question of fire management in the period 1600-1800, along the lines of inquiry described below.

a. The knowledge of fire

Scientific and technological practices in the early modern period were characterized by a coexistence of a sensuous paradigm, namely a qualitative appraisal of phenomena based on bodily knowledge, and an interest in quantification. In several fields – from chemistry to cooking – the practical knowledge of how to deal with fire was as much important as the theoretical knowledge of the properties of heat, acquired through increasingly accurate measuring tools. With regard to this issue, the workshop aims to discuss how the sensuous paradigm and the quantifying paradigm articulated in the early modern knowledge of fire, in the context of various scientific and technical practices.

b. The technology of fire

The technology of fire management was an important issue for early modern practitioners and inventors. One might think of the centrality of the furnace in several artisanal and scientific practices, but also on the importance of having a functional fireplace at home, for cooking and heating purposes. The early modern literature on furnaces, fireplaces, cooking tools, and other

technologies, gives an insight into the evolution of the technology of fire management, and to understand the mechanisms of technological transfer and the structure of artisanal networks. With regard to these aspects, the workshop is aimed at understanding how the technology of fire developed in the period 1600-1800, taking into account the history of material devices and inventions, but also biographical sketches of inventors and studies of artisanal networks.

c. The economy of fire management

The question of economy was central to a great number of early modern discussions around fire management. In a period of transition between wood to coal, and of great crises caused by the scarcity of fuel supplies (one might think of the *'disette de bois'* in eighteenth-century France), a reflection on the economy of resources became all the more urgent. Practices relying on the use of fire needed to include instructions to practitioners on how to use fire economically, and on how to limit fuel waste. Also, the economic interest impelled to find methods to make technical procedures as much effective and productive as possible, in order to meet the needs of the emerging industry (a straightforward example is that of steel industry). In this sense, the economy of labor and of time also became core issues in the early modern discourse on fire management. With regard to these aspects, the workshop aims to explore the question of the economy of fire management – including the economy of fuel, time and labor – in literature on manufacturing and industrial production, as well as on housekeeping (cooking, but also heating the home) and the organization of collective spaces such as hospitals and workhouses.

Abstracts (either in English or in French) of no more than **500 words** should be sent to marco.storni@unine.ch by **28 February 2021**. Submissions from early career researchers – graduate students and postdoctoral researchers – are warmly welcome. Funding will be available to cover accommodation expenses and meals (travel expenses will not be covered). The papers presented in the workshop will be considered for publication in an edited volume.

Keynote speakers:

Liliane Hilaire-Pérez (Université Paris-Diderot)

Simon Werrett (University College London)

Organizers:

Gianenrico Bernasconi (Université de Neuchâtel)

Marco Storni (Université de Neuchâtel)

The workshop is sponsored by the SNF-funded project *Mesure du temps, chimie et cuisine: formalisation des pratiques au XVIIe et au XVIIIe siècle* (grant no. 100011_184856/1). Please consult the web page www.unine.ch/mtcc for further information. Please address any further inquiry to marco.storni@unine.ch

Digital Studies of Digital Science (DS²)

We are excited to announce the call for papers for the closing conference of our [FNRS MIS Grant: Digital Studies of Digital Science \(DS²\)](#). Our aim in hosting this meeting is to bring together scholars working on two separate trends. First, *the products of science themselves have increasingly become digital* – from big data produced in laboratory contexts to the increasingly dominant roles of social media and preprints in the dissemination of results. Second, *the methods that we use to study those products have also become digitized* – scholars including philosophers, historians, linguists, and sociologists have turned to tools like network and citation analysis, textual analysis (and other tools of the digital humanities), and modeling and simulation, in our attempts to understand science and its changes over time. Both of these shifts have made a substantial impact on the epistemic landscape of science, and are in the process of reshaping the philosophy of science in particular and science studies more generally. What has been lacking, we think, is the opportunity

for dialogue between these two groups of researchers. On the one hand, meta-level claims about digital methods in science should equally well apply to cases where these methods are used in the humanities. And conversely, those interested in the epistemic characteristics of these digital methods in general should be able to learn from instances of their application in the humanities as well. We thus hope to put these two groups in dialogue, looking for new insights and modes of research enabled by our digital study of digital scientific products. The conference will take place, **virtually, from March 15–18, 2021**. Talks will take place in the afternoon/evening Europe time, or the morning North-America time, spread over four days, in a hopeful effort to combat Zoom fatigue.

We are *extremely* excited to provisionally confirm the following four keynote speakers:

- **Katy Börner**, Victor H. Yngve Distinguished Professor of Engineering and Information Science, Founding Director of the Cyberinfrastructure for Network Science Center, Indiana University (USA)
- **Susan Hunston**, Professor of English Language, Department of English Language and Linguistics, University of Birmingham (UK)
- **Sabina Leonelli**, Professor of Philosophy and History of Science, Co-Director, Exeter Centre for the Study of the Life Sciences (Egenis), University of Exeter (UK)
- **Christophe Malaterre**, Professeur, Département de philosophie, Université du Québec à Montréal (CA)

We believe that the broad interests of our speakers – including expertise in scientometrics, digital humanities, linguistics, history and philosophy of science, and network analysis – perfectly captures the broad and interdisciplinary spirit of the meeting, and we thank all four for their willingness to participate!

Accepted contributions to the conference will be given the opportunity to publish their work in a **special issue of a journal** (arrangements ongoing, with a very strong preference on the part of the organizers for open access). We are monitoring the pandemic situation closely, and should conditions improve between now and then, we would like to offer a **companion workshop in Belgium** for discussion and commentary on drafts to appear in the special issue. Planning for this workshop will only commence after abstracts for it are accepted and we have confirmed that the health situation permits such a workshop.

We welcome submissions from **any discipline which might plausibly touch on the theme that we have described here**. Scholars need not be working on the *intersection* of digital methods and digital products – just on one theme or the other, with an interest in the interdisciplinary overlap between the two. If you would like to submit, please send a **title and an abstract** (at least 200, but not more than 1,000 words) to our submissions site (hosted by the Microsoft Conference Management Toolkit) **by January 31, 2021**. Decisions on abstracts will be returned no later than February 15. The submission site can be found here: <https://cmt3.research.microsoft.com/DS22021/> You will need to create an account on this site (it's free) and upload your abstract, either as plain text, or as a .doc, .docx, or .pdf file. For more information about how to use the site, [please visit the Help Center for authors](#). We look forward to hearing from you! If you have any questions, do not hesitate to send us an e-mail: charles.pence@uclouvain.be

The conference chairs,
[Charles Pence](#) and [Luca Rivelli](#)

VIII. EXHIBITIONS

An exhibition entitled *El ingenio al servicio del poder*



Los códices de Leonardo Da Vinci en la Corte de los Austrias [Ingenuity at the service of political power: Leonardo da Vinci's codices at the Habsburg court] organised by the Region of Madrid in conjunction with the Royal San Fernando Royal Academy of Fine Arts will open to the public at the Academy on 2 February. The exhibition, which will run through 16 May, is co-curated by Daniel Crespo Delgado, professor with the Complutense University of Madrid and Fundación Juanelo Turriano researcher.

<https://www.realacademiabellasartessanfernando.com/es/actividades/exposiciones/el-ingenio-al-servicio-del-poderlos-codices-de-leonardo-da-vinci-en-la-corte-de-los-austrias>

Modesto Bargalló Virtual Exhibition



The permanent virtual exhibition *Modesto Bargalló. Haciendo ciencias en las aulas* [Modesto Bargalló, practising science in the classroom] can now be visited at the link below. This highly didactic showing opened in 2021 on the occasion of the 50th anniversary of the death of Professor Modesto Bargalló. It is constantly updated by organiser and curator Luis Moreno Martínez, 2017-2018 awardee of the Juanelo Turriano Foundation doctoral grant for his research on this professor, passionately devoted to teaching science.

[Exhibition](#) (In Spanish)

IX. BOOKS

Meilensteine der Rechentechnik, De Gruyter, Berlin/Boston, 3. Auflage 2020



Abbildung 1: Titelseiten der Bände 1 (links) und 2 (rechts) der deutschen Ausgabe

Milestones in Analog and Digital Computing, Springer Nature, Cham, 3rd edition 2020



Abbildung 2: Titelseiten der Bände 1 (links) und 2 (rechts) der englischen Ausgabe

- ❖ Bruderer, Herbert: **Meilensteine der Rechentechnik**, De Gruyter Oldenbourg, Berlin / Boston, 3., völlig neu bearbeitete und stark erweiterte Auflage, 2020, 2 Bände, 2025 Seiten, 715 Abbildungen (88% farbig), 151 Tabellen.

<https://www.degruyter.com/view/title/567028?rskey=xoRERF&result=7>

<https://www.degruyter.com/view/title/567221?rskey=A8Y4Gb&result=4>

- ❖ Bruderer, Herbert: **Milestones in Analog and Digital Computing**, Springer Nature Switzerland AG, Cham, 3rd edition 2020, 2 volumes, 2113 pages, 715 illustrations (88% in color), 151 tables.

<https://www.springer.com/de/book/9783030409739>

Weltgrößtes Buch zur Informatikgeschichte

Die Bandbreite des preisgekrönten Werks reicht vom Kerbholz über den **Abakus** bis zum **Internet** und zum **Smartphone**. Es deckt die **analoge und die digitale Welt** gleichermaßen ab. Der Schwerpunkt liegt auf der Vor- und Frühgeschichte der Informatik mit mechanischen, elektromechanischen und elektronischen Analog- und Digitalrechnern. Der **digitale Wandel** wird in Form eines Überblicks dargestellt. Das Buch ist bei weitem das weltweit umfangreichste Werk zur Informatikgeschichte. Die beiden Bände vermitteln eine weltumspannende Übersicht über Museumsbestände. Zur Sprache kommen die prächtigsten **Rechenmaschinen** und **Figurenautomaten**, ferner großartige **Musikautomaten** und **Uhren**. Es wird auf zahlreiche Nachbauten von Leonardo da Vincis **Robotern** eingegangen. In Wort und Bild werden alle bekannten originalen römischen Handabaki (sowie ein verschollener Handabakus aus Elfenbein) vorgestellt. Ferner sind unzählige **wissenschaftliche Instrumente** aus verwandten Bereichen wie **Mathematik, Astronomie, Geodäsie, Zeitmessung** und **Automatenbau** mit einbezogen. Hinzu kommen lochstreifengesteuerte mechanische **Webstühle** und die Anfänge der Schreibmaschine.

Das allgemein verständliche Buch berichtet über **sensationelle Funde** von Rechenhilfsmitteln und Dokumenten in mehreren Ländern: weltgrößte serienmäßig hergestellte Rechenwalze, kleinster mechanischer Parallelrechner, erster (mechanischer) Prozessrechner, Zuse-Rechenlocher, Gebrauchsanleitung für die Zuse Z4, Dokumente zur Firma H.W. Egli AG (Millionär, Madas). Die Entwicklung der Informatik in der Schweiz, vor allem an der **ETH Zürich**, wird eingehend behandelt. Auch die ETH Lausanne ist mit einbezogen. Eine ausführliche Untersuchung befasst sich mit der Datierung bedeutender Analog- und Digitalrechner, u.a. anhand von Handelsregistereinträgen und Messekatalogen.

20 ausführliche **Schritt-für-Schritt-Bedienungsanleitungen** erleichtern die Handhabung historischer analoger und digitaler Rechengерäte.

Ein deutsch-englisches und ein englisch-deutsches **Fachwörterbuch** mit je über 5000 Stichwörtern sowie eine umfassende **Bibliografie** mit mehr als 6000 deutschen, englischen, französischen, italienischen und spanischen Einträgen runden das Werk ab.

Erscheinungstermine: 12. Oktober 2020 (deutsch) und 5. Januar 2021 (englisch)

Weitere Auskünfte:

Herbert Bruderer

Seehaldenstraße 26

Postfach 47

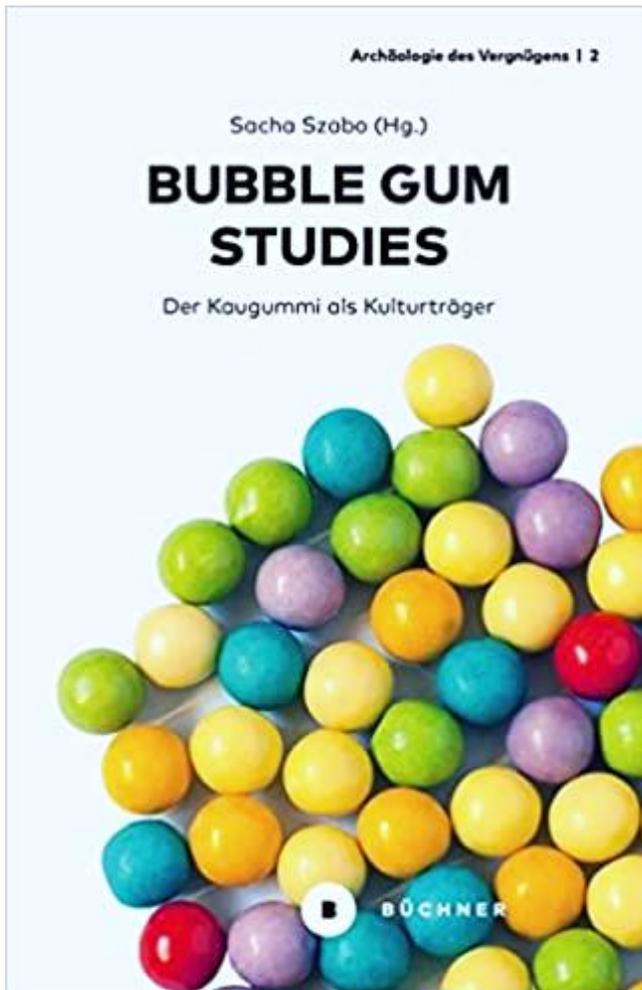
CH-9410 Rorschach, Schweiz

Telefon +41 71 855 77 11

herbert.bruderer@bluewin.ch

bruderer@retired.ethz.ch

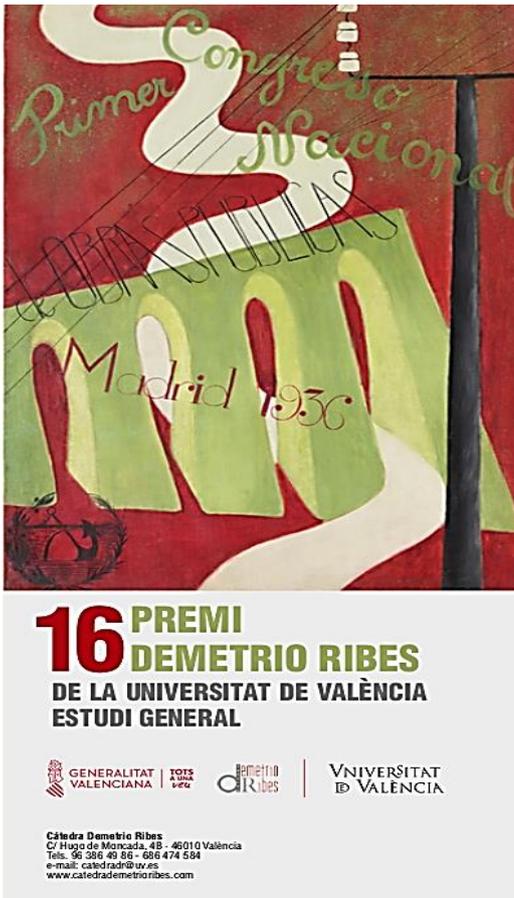
Sacha Szabo (ed.). *Bubble Gum Studies. Der Kaugummi als Kulturträger*. Böhner-Verlag: Marburg 2020.



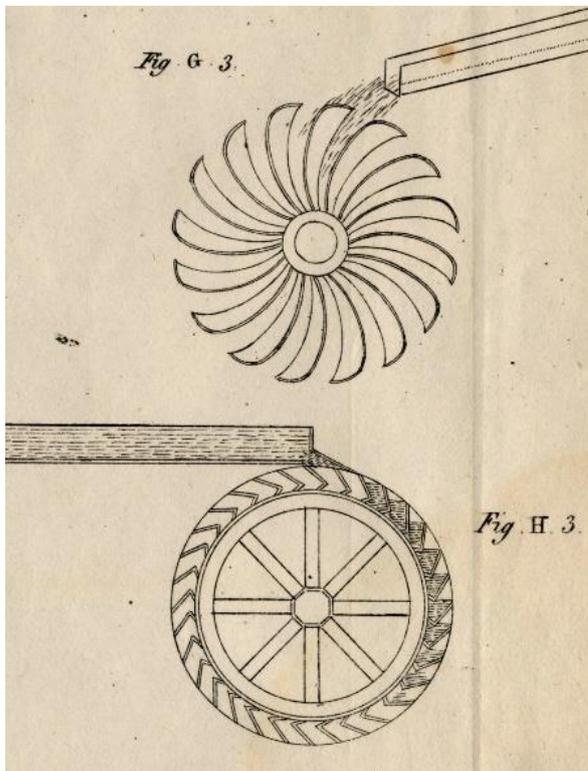
Das Kaugummi ist im Alltag so allgegenwärtig, dass es als völlig gewöhnlich angesehen wird und nur noch als klebriges Ärgernis an der Schuhsohle ins Bewusstsein tritt. Doch hat man es einmal in den Blick bekommen, dann sind die Spuren, die es hinterlässt, unübersehbar – als Quengelware an der Supermarktkasse ist es genauso präsent wie im Kaugummiautomaten, an dem viele ihre ersten Schritte in die Konsumwelt unternehmen. Dabei kommt ihm als Nahrungsmittel eine bemerkenswerte Sonderstellung zu, denn es wird gerade nicht durch Verzehr einverleibt, sondern widersetzt sich renitent jeder Vereinnahmung. Vielleicht ist diese Widerständigkeit auch ein Grund, weshalb das Kaugummi, trotz seiner Omnipräsenz, bislang kaum beachtet wurde. Diese Forschungslücke schließen die Autor_innen des

vorliegenden Bandes. Ausgehend von einer Kulturgeschichte des Kaugummis verfolgen sie die Spuren, die das Kaugummi in Kunst, Werbung, Wissenschaft und Umwelt sowie vor allem in unserem täglichen Leben hinterlassen hat und beständig hinterlässt.

X. PRIZES



The judges for the 16th edition of the Demetrio Ribes Prize have awarded the honour to Dr Santiago Tormo Esteve for his thesis entitled *Funcionalidad h drica y t rmica de los complejos termales romanos. Las termas mayores de Mura en Ll ria (Valencia)* [Hydric and thermal operation of Roman thermal complexes: the baths of Mura at Liria, Valencia].



The [Fundaci n Juanelo Turriano](#) announces the 11th edition of its 2021 *Garc a-Diego International Prize*, worth 12000 euros, for research in any of the branches of the history of technology. The prize is open to any individual or group submitting an original, unpublished paper in Spanish. The deadline for submissions is **20 January 2022**.

[See rules](#) (In Spanish)

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

University of Cambridge

Department of History and Philosophy of Science

Fixed-Term Lectureship in History of Modern Medicine (ref: JN25373)

Applications are invited for a Fixed-Term Lectureship in History of Modern Medicine to start on 1 September 2021. Appointment will be made at Point 49 (£41,526) on the University Lecturer scale and will be for a period of three years while Professor Nick Hopwood holds a Leverhulme Major Research Fellowship to work on 'The Many Births of the Test-Tube Baby'. Applicants should hold a PhD in a relevant discipline and be able to provide outstanding teaching and research in history of medicine since 1800. We especially welcome applicants whose expertise would expand the range of histories and geographies currently encompassed in the Department's teaching programme. The postholder will be expected to give lectures and lead seminars at undergraduate and master's level, to supervise coursework (assessed essays and dissertations) and to perform other departmental duties including those associated with assessment, examination and running seminars or reading groups. They will also be expected to publish and otherwise communicate their research in such a way as to maintain the Department's national and international reputation for excellence in history of health and medicine.

Please be aware that present conditions may dictate periods of home-working, but that the candidate should be available for office-based work in Cambridge. Due to the funding position for this post, the successful applicant will be appointed at Point 49 (£41,526) of the salary scale, with the salary rising in annual increments, in line with the University's pay policies and procedures. The funds are available until 31 August 2024 in the first instance. The post is supported by a two-year probationary period.

Applications should include: 1. A full CV, including details of teaching experience; 2. a list of publications; 3. statements about current and proposed research; 4. two samples of recent work; 5. the names of three referees.

Schedule:

- Closing date for applications is midnight (GMT) on **28 February 2021**
- Interviews will take place in late March 2021, most likely virtually
- Start date is 1 September 2021

For further information and how to apply visit <http://www.jobs.cam.ac.uk/job/28356/>

Inquiries can be addressed to hpsjobs@hermes.cam.ac.uk. Please quote reference JN25373 on your application and in any correspondence about this vacancy. For information on the Department of History and Philosophy of Science see www.hps.cam.ac.uk, for our history of medicine programme <https://www.hps.cam.ac.uk/research/history-of-medicine> and for more on the University of Cambridge www.cam.ac.uk.

FCT Individual Call to Scientific Employment Stimulus - 4th Edition

Host Institution: Centre for Philosophy of Sciences of the University of Lisbon (CFCUL)

The [Centre for Philosophy of Sciences of the University of Lisbon \(CFCUL\)](http://www.cfc.ul.br) (Lisbon, Portugal) welcomes expression of interest by prospective candidates interested in applying for fix-term (up

to 6 years) research positions funded by the [Fundação para a Ciência e a Tecnologia \(FCT\)](#) under the Individual Call to Scientific Employment Stimulus - 4th Edition [[+ info](#)].

The FCT will accept applications between **29 January and 26 February 2021** (17:00 Lisbon Time). Candidates will apply online directly to the FCT, but the **application must be supported by a host institution**. The application to FCT, written in English, must include the following:

- A research plan, including a description of the main activities to be undertaken, the expected results, as well as a clear explanation of how the research project fits with (at least one of) the goals set out in the [United Nations 2030 Agenda for Sustainable Development](#);
- A brief description of previous academic and scientific experience, highlighting the main activities and results obtained in the last 5 years;
- Curriculum vitae;
- Motivation letter, identifying up to two main contributions of the candidate in the last 5 years and the expected main contributions for the next years;
- A brief description of the conditions provided by the host institution and of how the proposed research plan fits into the overall strategy of the host institution.

CFCUL is interested in hosting high quality postdoctoral researchers in a wide range of areas in Philosophy of Science. Prospective candidates are invited to contact the Direction of CFCUL as soon as possible and no later than **13 February 2021** sending an e-mail in English to cfcul@fc.ul.pt, including:

- Researcher application level (Junior, Assistant, Principal, Coordinating)
- Detailed CV in PDF (please notice that for application purposes you'll have to use the CV platform [CIENCIAVITAE](#))
- Summary of the Research Plan

Notification of the acceptance/rejection by the CFCUL will be sent no later than 18 February 2021. The **Centre for Philosophy of Science of the University of Lisbon (CFCUL)** is a R&D Unit of the University of Lisbon located in the Faculty of Science of the University of Lisbon. CFCUL is the only R&D Unit in Portugal fully devoted to Philosophy of Science and is currently organized in three Research Groups:

- RG1 – PHILOSOPHY OF THE FORMAL SCIENCES, METHODOLOGY AND EPISTEMOLOGY covers three research lines:

- 1) Epistemology & Methodology
- 2) Philosophy of the Formal Sciences
- 3) History & Philosophy of European and non-European scientific traditions and communication of science

- RG2 – PHILOSOPHY OF NATURAL SCIENCES covers three research lines:

- 1) Philosophy of Physics
- 2) Philosophy of the Life Sciences
- 3) Metaphysics of Science

- RG3 – PHILOSOPHY OF TECHNOLOGY, HUMAN SCIENCES, ART AND SOCIETY covers four research lines:

- 1) Science and Art
- 2) Science-Art-Philosophy Lab
- 3) Philosophy of Human Technology

4) Philosophy of Human Sciences, Ethics and Politics

Centro de Filosofia das Ciências da Universidade de Lisboa, Faculdade de Ciências da Universidade de Lisboa, Campo Grande, Edifício C4, Piso 3, Gabinete 4.3.24. 1749-016 Lisboa
Telf. +351 217 500 365 | Ext. 24324. Web <https://cfcul.ciencias.ulisboa.pt>

PhD-Position in the History of Medicine (Child Health) at the University of Fribourg (Switzerland)

The chair of medical humanities (Prof. Dr. Dr. Martina King) at the University of Fribourg invites applications for a fully funded PhD-Position (4 years, 80%) in the history of medicine. The position will start on June 1, 2021 (negotiable).

The PhD-thesis will be realized in the framework of the SNSF Ambizione project (primary investigator: Dr. Dr. Felix E. Rietmann) “Raising a Well-Grown Child: Media and Material Cultures of Child Health in the Early Nineteenth Century.” Situated at the intersection of media history and the history of medicine, the project examines the impact of an emerging popular print and commercial culture on understandings of health and illness in childhood.

The PhD-student will define and conduct his or her own independent research project within the above-mentioned framework. Potential topics include but are not limited to: the discourse about child health in popular magazines in French-speaking Switzerland and/or France; histories of medico-pedagogical objects such as the waistcoat, the baby-walker, and the cradle; the development and application of digital tools for the analysis of historical magazines.

Requirements:

- M.A. in History or equivalent degree (e.g., M.A. in media or literary studies with experience in historical research)
- Proficiency (written and spoken) in German and/or French, and good knowledge of English
- Willingness to work in a collaborative environment

What we offer:

- A four-year employment contract to work in Fribourg
- A salary paid according to the SNSF rates for doctoral students (approx. 47'000 CHF for the first year)
- Excellent working conditions in a stimulating multi-disciplinary research environment

Please submit the following application materials:

- A cover letter showing that you meet the criteria for the position
- A statement of interest (1-2 pages) outlining your ideas for a doctoral research project
- A full CV, including publications (if available)
- Copies of your university transcripts and diplomas

Send your application in one PDF file by e-mail to the primary investigator of the research project, Dr. Felix Rietmann: felix.rietmann@unifr.ch (cc' Margrit Walthert: margrit.walthert@unifr.ch).

Informal inquiries about the project may also be addressed to Felix Rietmann. Application deadline: **February 20, 2021.**

American Institute of the History of Pharmacy 2021 PhD Research Support Grants - "Barriers & Margins"

The American Institute of the History of Pharmacy (AIHP) is now accepting applications for [2021 AIHP PhD Research Support Grants](#). **The deadline for receipt of applications is March 1, 2021.** The AIHP PhD Research Support Grant Program encourages academic research by doctoral candidates on topics related to the (broadly defined) history of pharmacy and pharmaceuticals. The Program provides grants of up to \$2,000, and AIHP hopes to fund two PhD Research Support Grants in 2021. The theme for the 2021 AIHP PhD Research Grant Program is **"Barriers & Margins."** The fields of pharmacy and pharmaceuticals have often witnessed social, economic, racial, gender, and other barriers that have marginalized certain segments of the population. Many of these stories remain untold. For this year's grant competition, we particularly encourage applications from students pursuing historical projects that engage with race, colonialism, gender, or inequality as they relate to social or cultural reconfigurations in pharmacy, pharmaceutical fields, and the adjacent health disciplines.

Recipients can use grant funds to cover research-related costs and expenses that are not reimbursed by the researcher's university. Grant winners must provide a brief report to AIHP about their grant-funded research one year after receiving the grant money. Within two years of receiving the grant, recipients must also agree to submit a manuscript based on their research for consideration for publication in AIHP's journal, [History of Pharmacy and Pharmaceuticals](#).

AIHP will give special attention to research proposals related to the theme of "Barriers & Margins" in 2021. "Preserving the histories of persons of color, women, and other underrepresented groups in pharmacy is vitally important in the era of Black Lives Matter and #MeToo," said AIHP Historical Director Lucas Richert, PhD, the George Urdang Chair in the History of Pharmacy at the University of Wisconsin–Madison School of Pharmacy. The theme of "Barriers & Margins" seeks to generate a greater historical discussion about racial justice, health disparities, and marginalized groups in the history of pharmacy and pharmaceuticals. Application details for the [AIHP PhD Research Support Grant Program](#) and a list of [past grant recipients](#) are available on the Institute's website. Contact Info: Gregory Bond, AIHP Assistant Director: aihp@aihp.org; URL: <https://aihp.org/awards-grants/grants/aihp-phd-grant/>

Tilburg University: visiting fellowships for the academic year 2021-22

The Department of Philosophy at Tilburg University invites applications for visiting fellowships for the academic year 2021-22. The fellowships are intended for advanced Ph.D. students, postdocs or junior faculty. Applicants should be keen on being an active part of a lively research community and on intellectual exchange with the resident fellows at Tilburg. The planned work of the candidates should relate to one (or more) of the research interests of members of the Department of Philosophy at Tilburg- see:

<https://www.tilburguniversity.edu/about/schools/humanities/departments/dphil/research>.

The two research clusters at Tilburg, TiLPS and PHC&E, sustain a full calendar of research events, such as regular seminars, workshops and conferences. The visiting fellows are expected to actively participate in these activities. The Visiting Fellows receive a tax-free reimbursement of € 750 / month, which can be used for covering travel and housing expenses, with a maximum of € 2.000 for the total stay. To apply, please send your application (everything in one pdf file) to m.colombo@uvt.nl no later than ****16 April 2021****. Applications will be reviewed by a selection

committee consisting of Dr Robb, Dr Lopez-Cantero, and Dr Colombo. We will notify you about our decision by ****3 May 2021****. Your application should contain (in one pdf file):

i. a motivation letter no longer than 2 pages, which should explain how the proposed research relates with one (or more) of the research strengths at the Department of Philosophy at Tilburg, and should state the planned period of visit

ii. a CV

iii. a project outline of no more than 1000 words

iv. PhD students should include at least one letter of recommendation from their supervisor (to maintain confidentiality, supervisors of PhD students may send their letters of recommendation separately to Dr Colombo).

For further information, please contact Dr Colombo at m.colombo@uvt.nl.

Ph.D. in Information Science program for our 2020-2021 cohort

The School of Library and Information Studies (SLIS) at the University of Oklahoma, an iSchool affiliate, is accepting applications to our Ph.D. in Information Science program for our 2020-2021 cohort. The program will prepare graduates to lead in creative research and teaching in academic environments, policymaking, and consulting for corporate, nonprofit, or governmental institutions. The goals of the program are:

- To cultivate a community of students capable of conducting original, sustained, and effective research in the field of information studies that solves significant problems;
- To foster students to become catalysts for change and leading advocates who effectively address the information needs of a diverse, pluralistic society in culturally responsible and sensitive ways;
- To prepare students to educate the next generation of information professionals in a highly technological and information-based society.

We are looking for exceptional students with interests in a variety of areas, including, but not limited to, information behavior, digital youth, social and cultural studies, digital humanities, information systems, and information policy. Students may pursue the Ph.D. on a full-time or part-time basis. All degree requirements must be completed within 10 years of beginning the program.

There are a number of graduate assistant positions across the university in libraries, archives, and other departments, and SLIS will work with students in finding funding opportunities. For full consideration, applications are due no later than January 15, 2020. Additional information can be found at <http://www.ou.edu/cas/slis/programs/phd>. For questions or more information, contact the SLIS Director, Dr. Susan Burke, at sburke@ou.edu, or 405-325-3921.

Two Faculty Positions in History and Philosophy of Science, Technion, Israel

The new research group for history and philosophy of science and engineering in the department of Humanities and Arts at Technion, Israel Institute of Technology is seeking applications from outstanding candidates for two tenure-track positions starting from October 2021. The program fosters research projects that link the humanities with the sciences, engineering, and technology; it also seeks to promote academic work related to practical involvement. We are seeking to fill **one position in the history and philosophy of science, engineering, and**

technology, and another position with an emphasis on ethical and other consequences of technological developments. As we plan on implementing an embedded ethics approach, experience and interest in developing such a program would be very helpful. Candidates should have a PhD in one of the relevant disciplines and a promising record of publications. Training in one of the sciences is a significant plus, and interest in developing joint projects with scientists and engineers is highly desirable. The rank is open but we have a slight preference for candidates who are in their early or mid-career stage. Interested candidates should send a CV, writing sample, and research project, and should arrange for three letters of recommendation to be sent, to Lisa Aisman at lisa@technion.ac.il and to Ohad Nachtomy at ohadnachtomy@technion.ac.il by **March 1, 2021**. For inquiries, please contact Ohad Nachtomy at ohadnachtomy@technion.ac.il.

ACM History Fellowship Competition--Deadline Feb 15th, 2021

The link https://history.acm.org/wp-content/uploads/2020/11/ACM-fellowship_CFP_2021-final-1.pdf provides an announcement to the Association for Computing Machinery (ACM) History Committee's 2021 fellowship competition for research projects on or centrally related to ACM history. The ACM History Committee runs this program, which has resulted in about 35 fellowships awarded since the start of this fellowship program in 2009. Many of these awards have gone to scholars (graduate students to senior scholars) in the SHOT and SIGCIS communities. The submission deadline for applications is **February 15, 2021**.

NEH-Hagley Fellowship on Business, Culture, and Society

The NEH-Hagley Fellowship on Business, Culture, and Society supports residencies at the Hagley Library in Wilmington, Delaware for junior and senior scholars whose projects make use of Hagley's substantial research collections. Scholars must have completed all requirements for their doctoral degrees by the February 15 application deadline. In accordance with NEH requirements, these fellowships are restricted to United States citizens or to foreign nationals who have been living in the United States for at least three years. These fellowships are made possible by support from the National Endowment for the Humanities. Fellowships may be four to twelve months in length and will provide a monthly stipend of \$5,000 and complimentary lodging in housing on Hagley's property. Hagley also will provide supplemental funds for local off-site accommodations to NEH fellowship recipients who can make a compelling case that special circumstance (e.g. disability or family needs) would make it impossible to make use of our scholar's housing. Scholars receive office space, Internet access, Inter-Library Loan privileges, and the full benefits of visiting scholars, including special access to Hagley's research collections. They are expected to be in regular and continuous residence and to participate in the Center's scholarly programs. They must devote full time to their study and may not accept teaching assignments or undertake any other major activities during their residency. Fellows may hold other major fellowships or grants during fellowship tenure, in addition to sabbaticals and supplemental grants from their own institutions, but only those that do not interfere with their residency at Hagley. Other NEH-funded grants may be held serially, but not concurrently.

Application Procedure for The Neh-Hagley Fellowship on Business, Culture, And Society

Requirements for application: (Apply online at <https://www.hagley.org/research/grants-fellowships/funding-application>).

- Current curriculum vitae.
- A 3,000-word explanation of the project and its contributions to pertinent scholarship.
- A statement of no more than 500 words explaining how residency at Hagley would advance the project, particularly the relevance of our research collections.
- A statement indicating the preferred duration of the fellowship.

Applicants also should arrange for **two** letters of recommendation to arrive separately by the application deadline. These should be sent directly to Carol Lockman, clockman@Hagley.org. Questions regarding this fellowship may be sent to Carol Lockman as well. **Deadline: February 15**

2021-2022 Fellowship Opportunities, Library & Museum of the American Philosophical Society

The Library & Museum of the American Philosophical Society in Philadelphia invites applications for postdoctoral, predoctoral, and short-term research fellowships for projects pertaining to Native American and Indigenous Studies, Early American History and Culture, and the History of Science, Technology, and Medicine. The Library & Museum's collections make it among the premier institutions for documenting and exhibiting the history of the American Revolution and founding, the history of science from Newton to NASA, Native American languages and culture, and the development of American anthropology. The Library & Museum houses over 14 million manuscripts; 275,000 volumes of printed materials and bound periodicals; 250,000 images, fine art, and other objects; thousands of maps and prints; and more than 3,500 hours of audio recordings of Native American languages. Comprehensive, searchable guides and finding aids to our collections are available online at <https://www.amphilsoc.org/library/search-collections> and <http://amphilsoc.pastperfectonline.com/>. See individual fellowship descriptions below for more information and instructions on how to apply. For a complete listing of all APS grant and fellowship opportunities, visit www.amphilsoc.org/grants/fellowships.

Short-Term Fellowships - Deadline: March 5, 2021

Indigenous Community Research Fellowship

These short-term fellowships offer up to \$5,000 to support research by Indigenous community members and others regardless of background seeking to examine Library & Museum materials in support of Indigenous community-based priorities. To apply, please submit materials to <https://apply.interfolio.com/80835>

David Center for the American Revolution Short-Term Research Fellowship

These one month fellowships provide \$3,000 for researchers working on projects about the American Revolution and Founding Era who show a demonstrated need to use the APS's Library & Museum collections. To apply, please submit materials to <https://apply.interfolio.com/79138>

Swan Foundation Short-Term Resident Research Fellowship for Revolutionary-Era Material Culture

This fellowship provides one month of support to work in the artifact collections of the Swan Historical Foundation, the American Philosophical Society, and other repositories in the Greater Philadelphia Region. To apply, please submit materials to <https://apply.interfolio.com/80954>

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 wfenton@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.

XII. Join ICOHTEC

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



Form for annual membership renewals / registration of new members

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

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

- An individual. Rate: (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 €, Overseas 39 € or 52 \$) per year

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

I submit the total amount: _____

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Tick the method of your payment:

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"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.