

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

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I. ICOHTEC

I.1 THE FIRST DIGITAL ICOHTEC SYMPOSIUM, 15-17 JULY 2020.

Dear Members and Friends of ICOHTEC,

Given the current epidemiological situation, the 47th Annual Meeting of ICOHTEC in Eindhoven (scheduled for July 13-19, 2020) **will not take place physically on location**. This also applies to the connected Summer School. The decision was made after thorough consultation between the ICOHTEC officers and the Local Organizing Committee. However, we are organizing the 2020 symposium in a **digital format**. We expect that due the current lock-down situation and its foreseeable aftermath (many other meetings have been cancelled), ICOHTEC members may be particularly eager to have professional exchanges with their international peers.

The first digital ICOHTEC symposium (15-17 July 2020) is taking shape. It will follow soon new updates about the workflow of this, “experimental” and forerunning, new digital challenge.

Best wishes and stay healthy

Sławomir Łotysz

The President of ICOHTEC

Stefan Poser

Secretary General of ICOHTEC

Chair of the Program Committee

Jan Korsten and Erik van der Vleuten

On behalf of the Local Organizing Committee

I.2 ICON

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 24 \(2018/2019\)](#)

[Volume 23 \(2017\)](#)

[Volume 22 \(2016\)](#)

[Volume 21 \(2015\)](#)

[Volume 20.2 \(2014\)](#)

[Volume 20.1 \(2014\)](#)

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

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ICON Editorial Board

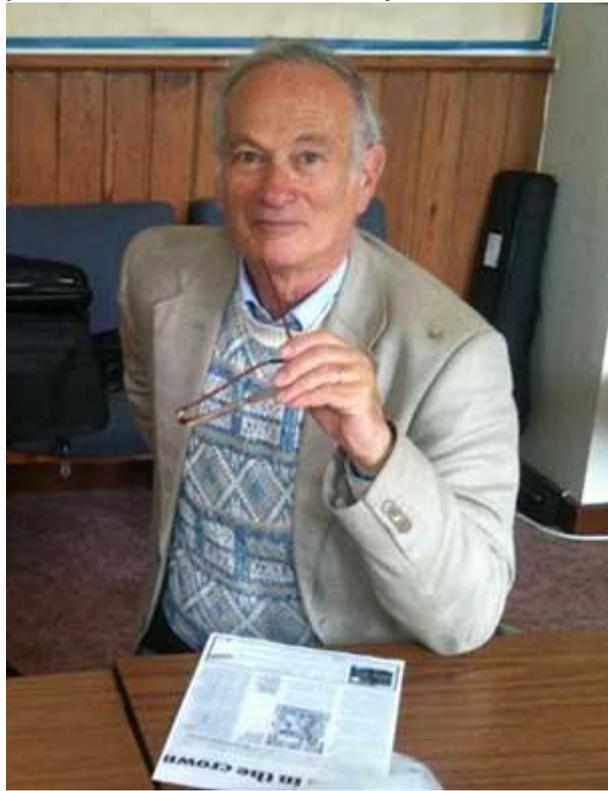
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Patricio Saiz
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Eric van der Vleuten
Artemis Yagou

I.3 OBITUARY: ALEX KELLER

ICOHTEC has been regretfully notified by the University of Leicester on the recent death of our longtime member and ICON editor, Professor Alex Keller, who taught history of science and technology at Leicester 1963-1997. Since hearing of his passing, colleagues in this international

community have been quick to praise his friendliness, good humour and commitment to international collaborations as well as his scholarly contributions. He will be sadly missed.

In the 1950s, as Alex often told me, he volunteered to serve in the Israeli army, leaving England for a while. There, he met a wonderful girl-soldier, Hanna, from a Jewish Yemenite origin, married her, signifying what is very common nowadays East-West marriages. He moved back to England to complete his PhD so he could come back and help the new country. Alex studied history at Cambridge and Oxford, completing a PhD at Cambridge on Early Printed Books of Mechanical Inventions 1569-1629. He published an anthology of pictures from these books, as *A Theatre of Machines* (1964). After completing the PhD he found that there were too many PhDs already in Israel, deciding to stay home. Together with Hanna they raised a very nice family. In the Glasgow symposium Alex introduced me to his son. Alex was a gentle, knowledgeable and a friendly person, guiding us very interestingly through his hometown of Leicester, during the annual symposium of 2005 I believe. He loved the city and its historical heritage and supported Hanna (herself very engaged in the arts) when she was ill.



Alex spent time as a curator at the Whipple Museum before joining the University of Leicester as Lecturer in History of Science in 1963. He was promoted to Senior Lecturer in 1974 and taught at Leicester until 1997. Following formal retirement, he continued as a University Fellow.

He published extensively on Renaissance mechanics and engineering, culminating in a translation from Spanish, with extensive commentary, of a late sixteenth-century five-volume manuscript technical encyclopedia, *Los Veintiun Libros de los Ingenios y de las Maquinas*, as *The Twenty-One Books of Engineering and Machines* (1996). Keller also ventured into the early twentieth-century teaching and writing (*The Infancy of Atomic Physics*).

Alex was an active member of the national and international history of science and technology community, serving on the British Society for the History of Science Council in the 1970s. He also enjoyed a long association with the International Committee for the History of Technology, including as editor of *ICON* until 2009, leading its publications on time and opening the Journal to new and veteran writers and to various topics.

Yoel Bergman, Ph.D
ICOHTEC Vice-president

II. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) HISTORY CENTER

How the IEEE History Center helps Historians

Alexander B. Magoun, outreach historian, a.b.magoun@ieee.org

Founded in 1980, the [IEEE History Center](#) preserves, researches, and promotes the history of information and electrical technologies. 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:

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.

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.

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.

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.

In addition, 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.

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 intent is to encourage the creation of narratives that document the evolution of engineering practices and explain when, how, and why people developed technologies as they did. As a wiki, it is open to contributors and editors who are approved for [an account](#). 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.

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 ieeh-history@ieee.org.

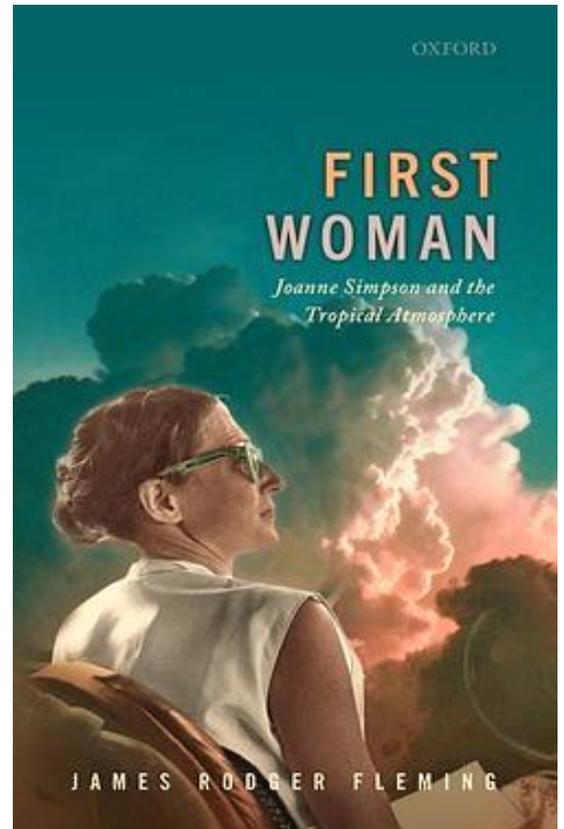
III. BOOK PRESENTATION: *FIRST WOMAN: JOANNE SIMPSON AND THE TROPICAL ATMOSPHERE*, BY JAMES RODGER FLEMING

Clouds are the spark plugs in the heat engine of the tropical atmosphere, and heat from the tropics drives the planet's general circulation. Atmospheric scientists did not know this in the 1950s, but Joanne Simpson, the first American woman to earn a PhD in meteorology, did. Most histories of meteorology focus on polar and temperate regions and the accomplishments of male scientists. They marginalize or erase completely the contributions of female researchers. Joanne's work on the tropical atmosphere did not fit this pattern.

Joanne had a lifelong passion for clouds and severe storms. She flew into and above them, photographed them, modeled them, attempted to modify them, and studied them from all angles. She held two university professorships, married three times, had two lovers (one secret), mentored a generation of meteorologists, and blazed a trail for other women to follow.

First Woman: Joanne Simpson and the Tropical Atmosphere is about Joanne's personal and professional life, her career prospects as a woman in science, and her relationship to the tropical atmosphere. These multifaceted and interacting textual streams constitute a braided narrative and form a complex dynamic system that displays surprising emergent properties. Is Joanne Simpson best remembered as a pioneer woman scientist or the best tropical scientist of her generation? She was both, with the emphasis on best scientist.

James Rodger Fleming, *First Woman: Joanne Simpson And The Tropical Atmosphere*. Oxford University Press, 2020. ISBN 978-0-19-886273-4



IV. *miniGeology*

[What is miniGeology?](#)

miniGeology is a town square where you meet protagonists and minor characters related to Geology and the Earth Sciences. I interview them to uncover their mindset, and to discover how they approach problems, their work, and life, which I then share with the community.

miniGeology is informal. The interview format yields a short spontaneous discussion. Interviews depict geology in all its colors, with speakers of different nations, all ages, and genders. Here's how you can follow miniGeology:

1) Subscribe to the [youtube channel](#), an archive of all interviews, and a round table where everybody can upload their own videos and interviews;

- 2) Listen to the Radio Show every Tuesday at 5:00 pm CST on [KPFT Houston](#) (click HD2 STREAM) to hear news, debates, and curiosities about Geology, for novices and professionals;
- 3) Follow us on our [twitter account](#);
- 4) Visit us at [this page](#) on the Department of Earth, Environmental and Planetary Sciences website at Rice University.

Mission to where?

My interviews and the encapsulated stories they tell are to help geologists better appreciate the many relationships that Geology has with other sciences, and how it fits with different aspects of life. I tell these stories to listeners who have the curiosity and the patience to listen. miniGeology is a communication vessel that mixes ideas about, and within, science, industry and society. Through miniGeology, I investigate how Earth Science progresses. Progress, as stated by Heidegger, comes from inquiring into the ways in which each particular branch of a study is basically constituted, and not so much from producing results and storing them in manuals. Therefore, miniGeology contributes to our understanding of where Earth Science has evolved by documenting how far Earth Science is capable of a crisis in its basic concepts.

Me?

This is how I experience new realities, and how I travel through parallels and meridians, because, as Seneca said, you should change your attitude, not the sky under which you live. This project represents an extremely useful exercise to me. I move forward with honesty and that sort of accountability necessary when you decide to reach out and be a representative of your own discipline.

[Daniel Minisini](#)

Research Geologist, SHELL USA

miniGeology Selected Shows:

- * *Martha Lou Broussard: condition of women geoscientists in the 50s-60s:* <https://studio.youtube.com/video/QtjcwTjWVk/edit>
- * *AAPG President reluctant to recognize anthropogenic climate change:* https://studio.youtube.com/video/-LiKVGU_LeA/edit
- * *A compendium on the Geology of Unconventionals from an explorer point of view:* https://studio.youtube.com/video/veP-cBjdS_Q/edit
- * *The ANTHROPOCENE era helps us rethinking our social and economic organization:* <https://youtu.be/h3uoVu-Vu6Q>

V. OPEN SOURCES: Centaurus and Journal of the Philosophy of History

Centaurus. The journal of the European Society for the History of Science
Special issue: Technology and Information Propagation in a Propaganda War. VOLUME 61, ISSUE 3
GUEST EDITOR: István Rév

We examine the conditions of knowledge production, information transmission and both the uses and constraints of technology during the Cold War. Drawing on archives of Radio Free Europe, the Polish Radio, and Romanian secret police, the articles provide comparative perspectives on propaganda across the Iron Curtain with a particular focus on notions implying objective knowledge. The authors reflect on interactions between technology and politics in a historical context of proliferation of deeply biased information.

1. István Rév, '[Neither objective nor subjective](#)'
2. Georgi Georgiev, '[Cold War atmosphere: Distorted information and facts in the case of Free Europe balloons](#)'
3. Ruxandra Petrinca, '[Radio waves, memories, and the politics of everyday life in socialist Romania: The case of Radio Free Europe](#)'
4. Joanna Walewska-Choptiany, '[Listening through the Iron Curtain: RFE and Polish Radio in the “fog of war”](#)'

Articles

5. Jan Surman, '[Terminology between chemistry and philology: A Polish interdisciplinary debate in 1900?](#)'

ESHS Contributions

6. Ana Simões, '[Looking back, stepping forward: Reflections on the sciences in Europe](#)'
7. Antonio Sánchez, '[Practical knowledge and empire in the early modern Iberian world. Towards an artisanal turn](#)'

Book reviews

8. [Las “mentiras” científicas sobre las mujeres \[Scientific “lies” about women\]](#), by S. García Dauder and Eulalia Pérez Sedeño (Editorial Catarata), review by Mònica Balltandre Pla
9. [Urban Histories of Science. Making Knowledge in the City, 1820–1940](#), eds Oliver Hochadel and Agustí Nieto-Galan (Routledge), review by Montserrat Cañedo-Rodríguez

Journal of the Philosophy of History, Volume 14, Issue 1, 2020

<https://brill.com/view/journals/jph/14/1/jph.14.issue-1.xml>

- [Editorial: Too many books to read? Then read this \(OPEN ACCESS\)](#)
By: [Jouni-Matti Kuukkanen](#) Pages: 1–2
- **Research Article**
[Reaction in Politics](#)
By: [James Alexander](#) Pages: 3–26
- **Research Article**
[Incomplete Secularization of History: Ethan Kleinberg and Hayden White](#)
By: [Torbjörn Gustafsson Chorell](#) Pages: 27–46
- **Research Article**
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- **Book Review**
[How History Works: The Reconstitution of a Human Science, written by Martin L. Davies](#)
By: [Alexandre Leskanich](#) Pages: 134–138
- **Book Review**
[Collective Memory and the Historical Past, written by Jeffrey Andrew Barash](#)
By: [Adriaan van Veldhuizen](#) Pages: 139–142

VI. DIGITAL LEARNING: HISTORY AND PHILOSOPHY OF SCIENCE IN 20 OBJECTS

Below is an announcement about a new, informal introductory course in History and Philosophy of Science, based on a public lecture series given in Leeds, and available for free online. Thank you in advance for forwarding it to anyone /any lists that might find the course of interest!

This free online course offers an introduction to the History and Philosophy of Science. The course is informal, with no exams and no certificate at the end. But anyone, aged 16 and up, who is curious to know more about the subject will find it presented in a lively, accessible and unusual way. At the core of the course are 20 films from a public lecture series given in 2016-7 by staff and graduate students in the Centre for History and Philosophy of Science at the University of Leeds. Each lecture uses an object from the University's Museum of the History of Science, Technology and Medicine as a jumping-off point for explorations of major themes in the historical development and philosophical interpretation of science.

The opening lecture shows how an ancient Cypriot horse-and-rider figurine can serve as a point of entry to the long run of the study of the human mind, from Plato to Freud. The second lecture uses a two-headed fish, preserved in a jar, to look at the question of monsters and monstrosity, emphasizing the challenge that deformity posed for pre-Darwinian science, when God's good design-work in organisms was taken for granted. From there, the objects and topics examined cover a wide range. Some objects are emblematic of the history of science as anyone would tell it, such as an air-pump (in a lecture on physics and the laws of nature), a microscope (in a lecture on observation and its relationship to theory), and a stethoscope (in a lecture on medical diagnosis and the shift in emphasis, around 1800, from outward symptoms to inner causes). Other

objects are more surprising: a nineteenth-century Biblical herbarium, stocked with specimens of plants named in the Bible (in a lecture on science and religion); an X-ray camera used in the 1930s to take the first X-ray photograph of DNA (in a lecture on molecular biology and its little-known industrial beginnings); and the prototype Newlyn-Phillips machine, which in the late 1940s used flowing water to model, and even compute, the flow of money in national economies, making it the world's first economics computer (in a lecture on models, mathematics and economics). Most surprising of all, perhaps, is a perpetual motion machine...

The course is self-paced. Beginning Friday, 15 May, and continuing for the next month, current and former members of the Leeds Centre will be hosting online discussions of the lectures.

To join the course:

- (1) Go to openeducation.blackboard.com
- (2) Search for "History and Philosophy of Science in 20 Objects" via the search window (where it says "Find the Right Course for You")
- (3) Click on "Enroll"
- (4) At the bottom of the pop-up window, click on "Don't have an account? Create one here." (If you don't see that, click on "Enroll" again, or -- if that doesn't work -- use a different internet browser)
- (5) After you've created an account, you'll be given a link that will take you to the course homepage

For further information, please email Gregory Radick at G.M.Radick@leeds.ac.uk. For more on the Leeds Centre for History and Philosophy of Science, including MA and PhD programmes, please visit the Centre's website, <https://ahc.leeds.ac.uk/centre-history-philosophy-science>. For more on undergraduate programmes, please visit the University of Leeds coursefinder, <https://bit.ly/2Aak3HJ>.

Gregory Radick

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Website: www.gregoryradick.com

President, International Society for the History, Philosophy, and Social Studies of Biology

VII. WORKSHOPS: ENERGY IN/OUT OF PLACE: A VIRTUAL ENERGY HUMANITIES RESEARCH-CREATION

Energy In/Out of Place: A Virtual Energy Humanities Research-Creation Workshop

<https://energyandplace.artsrn.ualberta.ca>

June 15-19, 2020 - please register online

Workshop Schedule:

June 15-19: Asynchronous online discussion

June 15: Keynote by Kirby Calvert

June 19: Keynote by Natalie Loveless and Sheena Wilson

(keynotes broadcast on Zoom, 8:30am MST)

For more info and to register, visit <https://energyandplace.artsrn.ualberta.ca/>

Contact: wil@library.ethz.ch

im Homeoffice: Mo, Di, Do,

Fr, dothea.zimmermann@library.ethz.ch, www.library.ethz.ch, [Sammlung wissenschaftlicher Instrumente und Lehrmittel](#)

IX. CALLS FOR MANUSCRIPTS

Special Issue of Social Choice and Welfare: Deliberation and Aggregation

Authors are invited to submit papers that contribute to understand how, and when, deliberation and aggregation can be conjoined in order to arrive at better processes of collective attitude formation. Social Choice and Welfare (SCW) mainly publishes high-quality papers studying models of welfare economics and collective choice. Conceptual or philosophical papers that are of exceptional quality and close to the core topics of the journal will also be considered for this special issue. **Paper Submission Deadline: November 15th, 2020.** Submit complete papers for peer review through the SCW online submission system. Submissions should be prepared following the SCW submission guidelines: <https://www.springer.com/journal/355/submission-guidelines>.

Submissions accepted before the completion of the issue will be publicly available on SCW's "Online First" section.

Guest Editors Mikael Cozic (U. Paris-Est Créteil, mikael.cozic@u-pec.fr) and Olivier Roy (U. Bayreuth)

Background

Preferences and beliefs are routinely attributed to groups. A jury can believe the accused to be guilty, and a professional board can officially voice its disapproval of certain practices by its members. The special issue aims at putting together contributions that take steps towards bridging the gap between the two main paradigms in formal philosophy and economics on the formation of such collective attitudes: the deliberative and aggregative views. On the deliberative view, group attitudes stem from a consensus reached after a (more or less) structured exchange of opinions. On the aggregative view, group attitudes are formed by putting together the possibly diverging views of individuals, through a formal voting procedure for instance. Deliberation and aggregation are typically both involved in collective attitude formation. We cannot deliberate endlessly. When disagreements persist, aggregating, e.g. by voting, might be the only way to arrive at a group opinion. So deliberation and aggregation are not competing, but complementary approaches. Up to now, however, they have mostly been studied separately. This is an important limitation, and many authors have defended the view that deliberation and aggregation can enhance each other: Deliberation can support meaningful aggregation, for instance by preventing preference cycles. On the other hand specific forms of aggregation can possibly help overcome some of the negative effects of deliberation, for instance by minimizing strategic behavior in deliberation, or attenuating the effects of polarization and groupthink. The goal of this special issue is to put together a number of original articles that further our understanding of how, and when, deliberation and aggregation can be conjoined in order to arrive at better processes of collective attitude formation. The overarching question is how deliberation can be better geared towards aggregation, and how to enrich current models of belief and preference aggregation to make them more amenable to the results of deliberation.

Synthese Topical Collection: Concept Formation in the Natural and Social Sciences: Empirical and Normative Aspects

Guest editors:

Georg Brun (University of Bern, Switzerland)

Catherine Herfeld (University of Zurich, Switzerland)

Kevin Reuter (University of Zurich, Switzerland)

Topic overview:

Concept formation has recently become a widely discussed topic in philosophy under the headings of “conceptual engineering”, “conceptual ethics”, and “ameliorative analysis”. Much of this work has been inspired either by the method of explication or by ameliorative projects. In the former case, concept formation is usually seen as a tool of the sciences, of formal disciplines, and of philosophy. In the latter case, concept formation is seen as a tool in the service of social progress. While recent philosophical discussions on concept formation have addressed natural sciences such as physics as well as various life sciences, so far there is only little direct engagement with the social sciences. To address this shortcoming is important because many debates about socially relevant concepts such as power, gender, democracy, risk, justice, or rationality, may best be understood as engaging in conceptual engineering. This topical collection addresses the nature and structure of concept formation in the natural and the social sciences alike, both as a process taking place within science and as an activity that aims at a broader impact in society. This will foster understanding of how concept formation proceeds not only in the natural sciences but also in disciplines such as psychology, cognitive science, political science, sociology and economics. Thereby, we aim at expanding the scope of the philosophical debate about concept formation more generally.

Papers could address questions such as:

- Which methods of concept formation should be distinguished and why do scholars select them?
- What are similarities and differences between concept formation in the natural and the social sciences?
- How does concept formation in the social sciences work in specific cases?
- How does and how should empirical research into concept use bear on concept formation?
- How is concept formation shaped by factors such as current language use, measurement, theoretical virtues, and socio-political goals?
- Do values enter processes of concept formation in science generally, and in the social sciences in particular?

We will consider projects that use either a systematic, a historical, or an empirical approach. We are particularly interested in experimental-philosophical work (e.g., questionnaire studies, corpus analysis) that discusses its use and/or its consequences for explicating or engineering socially-relevant concepts. The deadline for submissions is **30th September, 2020**. For more information, please contact the guest editors.

Georg Brun: georg.brun@philo.unibe.ch

Catherine Herfeld: catherine.herfeld@uzh.ch

Kevin Reuter: kevin.reuter@uzh.ch

X. CONGRESS REPORT: *PLASTICS HERITAGE CONGRESS: HISTORY, LIMITS AND POSSIBILITIES*

Congress Report

PLASTICS HERITAGE CONGRESS: History, Limits and Possibilities. Lisbon, 27-31 May 2019

Maria Elvira Callapez¹, Susana França de Sá², Artur Neves², Eva Mariasole², Maria João Melo²

¹ Centro Interuniversitário de História das Ciências e da Tecnologia, Faculdade de Ciências, Universidade de Lisboa, 1749-016 Lisboa, Portugal.

² Department of Conservation and Restoration and LAQV-REQUIMTE, Faculty of Science and Technology, Universidade NOVA de Lisboa, Campus da Caparica, 2829-516, Caparica, Portugal.

“The Plastics Heritage Congress 2019: History, Limits and Possibilities” was successfully held in Lisbon, from 29th to 31st May 2019. The congress was organized by the **Centro Interuniversitário de História das Ciências e da Tecnologia** (CIUHCT), and hosted by Museu Nacional dos Coches/ National Coach Museum. The event had around 240 international participants, from 24 countries, whose presence greatly contributed to the realization of this academic meeting.

The theme of this congress has continuously proven to be of great relevance, covering a wide range of valuable and multidisciplinary approaches, both from theoretical and methodological perspectives, to the study of polymeric materials. The congress’ program was the main highlight of the event as it featured some of the most knowledgeable and respectable specialists in the field of plastics. Jeffrey Meikle, the event’s keynote speaker, was one of the many memorable presences in the congress. In his lecture titled “Rethinking Early Plastics: The Rhetoric of New Materials”, offered new insights into the perception of the material, a discussion which was complemented by Hugh Karraker’s work.

The participants took a tour for a welcome reception to the Reservatório Mãe D’água/ Mãe D’água Reservoir, designed in 1746 by the Hungarian architect Carlos Mardel. This reservoir was built to receive and distribute the water carried by the Águas Livres Aqueduct. Hugh Karraker, producer and great-grandson of Leo Hendrick Baekeland, Karraker presented, at Museu de Leiria, the documentary film “All Things Bakelite”, which explores the life and work of Leo Hendrick Baekeland. The viewing of the film was followed by a round table debate, where academic leading figures, such as Robert Friedel, Susan Mossman, Tom Fisher and Penny Sparke, as well as businessmen working with plastics, as Miguel Ritto (Plásticos Santo António), Paulo Almeida (Plasgal), Tiago Coelho (AGI), Pedro Gonçalves (CIRES) were present.

In the opening session Ernst Homburg in his laudation explored Meikle’s broad background: American studies; industrial design; history of technology; business history; history of science, focusing on the Rhetoric of new Materials. Additionally, participants presented several themes, covering Plastics and Environment, Historic Polymeric Materials (HIPOMs) Preservation, Conservation, Characterisation, HIPOMs Heritage, HIPOMs in Museums, Collections, Archives, HIPOMs in Art, Design, HIPOMs History. Sessions over two days took place in the new Museu Nacional dos Coches/ National Coach Museum, located in downtown Lisbon by the river Tagus, in Belém area. Situated on the western part of central Lisbon, Belém is one of the most historically relevant districts of the city. With a vast cultural heritage, given the great Portuguese marine discoveries of the 15th and 16th centuries, it is home to the city’s most quintessential attractions. The new Coach Museum building comprises a main hall with a suspended nave and an annex, which is connected by an overpass, enabling circulation from one building to the other. This layout creates a gantry like structure directed towards an internal square, where the old Rua da Junqueira buildings also face. The new museum encompasses premises for the

permanent and temporary exhibitions, reception halls, and a workshop for conservation and restoration, a contribution towards the development of conservation and restoration activities of this unique legacy.

A series of papers addressed different perspectives on “Plastics Heritage: History, Limits and Possibilities” provided a glimpse at the present research of plastics and its multidisciplinary approach as shown in the sessions below:

Oral Presentations	
Wednesday, 29 May 2019 Hipoms' Heritage	
Session A: Auditorium Chair: Jake Kaner	
Authors	Title
Jake Kaner	<i>Casein formaldehyde as a design component for CR Mackintosh</i>
Tom Fisher, Damla Tonuk	<i>Plasticity, and a (Hi)story of Milk Plastics</i>
Mary M Brooks, Richard S. Blackburn, Anita Quye	<i>Forgotten histories & possible futures: Learning from 20th century fibres and films made from regenerated protein sources</i>
Stefan Poser	<i>Plastics, Sports and Emotions</i>
Oral Presentations	
Wednesday, 29 May 2019 Museums, Collections, Archives	
Session B: Library Chair: Louise Dennis	
Cancy Chu, Petronella Nel	<i>Impact of plastics on archives</i>
Gabriele Oropallo	<i>Plastic Space: Shellac as Informed Material in the History of Imitation Lacquerware</i>
Vítězslav Knotek, Petra Korandová, Radka Kalousková, Michal Ďurovič	<i>Identification and degradation of cinematographic films with magnetic audio track</i>
Marina Higashimori, Masahiko Tsukada	<i>Material analysis of animation cels produced in early 1990s before the digital era</i>
Oral Presentations	
Wednesday, 29 May 2019 Hipoms' Heritage	
Session A: Auditorium Chair: Hanna M. Szczepanowska	
Hanna M. Szczepanowska	<i>Gutta Percha, natural rubber or balata? History and material characterization</i>

Yoel Bergman	<i>From celluloid to a quick arrival at Poudre B: Paul Vieille's unveiled path to his famous formulation</i>
Alla Nudel	<i>The use of plastics in the Soviet household appliances. Plastics rarities from the Moscow Polytechnic Museum's collections</i>
Liv Ramskjaer	<i>All nicely wrapped up in plastic". Packaging, marketing and consuming goods wrapped in plastic in the 1960s Norway</i>

Oral Presentations

Wednesday, 29 May 2019 Preservation, conservation, characterization

Session A: Auditorium | Chair: Marcello Picollo

Susana França de Sá, Eva Mariasole Angelin, Inês Soares, Joana Lia Ferreira, Costanza Cucci, Giovanni Bartolozzi, Marcello Picollo, Maria João Melo, Maria Elvira Callapez	<i>Plastics at an exhibition: a critical assessment of mid-infrared reflection techniques in cultural heritage</i>
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Francesca Rosi, Annalisa Chieli, Barbara Ferriani, Costanza Miliani	<i>MOLAB access at the Italian Triennial Design Museum: non-invasive portable spectroscopies unveiling the composition of iconic objects of the Italian design</i>
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Anna Klisińska-Kopacz, Julio M. del Hoyo-Meléndez, Agata Mendys, Anna Kłosowska-Klechowska	<i>Identification of Unstable Museum Plastic Objects Based on Spectroscopy Techniques and Microfading Analysis</i>
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Francesca Caterina Izzo, Giovanni Bartolozzi, Costanza Cucci, Francesco Grazzi, Marcello Picollo, Alessandra Carrieri	<i>The study of cellulose acetate- based animation cels through portable spectroscopic techniques</i>
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Oral Presentations

Thursday, 30 May 2019 Preservation, conservation, characterisation

Session A: Auditorium | Chair: Suzan de Groot

Donald Sale, Angelica Bartoletti, Laurent Bozec, Marianne Odlyha	<i>Investigating conservation materials for painted PMMA: Comparing light-aged BMA resins with nano thermal analysis</i>
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**Rebecca Ploeger,
Jocelyn Alcantara-
Garcia** *Strategies for teaching polymer chemistry in the cultural heritage
field*

Oral Presentations

Thursday, 30 May 2019 Preservation, conservation, characterisation

Session B: Library | Chair: Yvonne Shashoua

**Yvonne Shashoua,
Margherita Alterini,
Gianluca Pastorelli,
Louise Cone** *From microfibrres to nanogels-conservation cleaning of plastics
heritage*

**Alice Hansen,
Antonella Russo,
Leonardo Borgioli** *Identification of methodological protocols for the conservation of
design plastic objects*

**Francesca
Modugno, Jacopo
La Nasa, Greta
Biale, Francesca
Sabatini, Ilaria
Degano, Barbara
Ferriani, Antonio
Rava, Maria Perla
Colombini** *Characterization of synthetic polymers in heritage: a new
approach to investigate multi-material objects*

Oral Presentations

Thursday, 30 May 2019 Preservation, conservation, characterisation

Session A: Auditorium | Chair: Thea van Oosten

**Elena Gómez-
Sánchez, Susanne
Brunner, Janine
Köppen, Giulia
Mazzon, Corentin
Chaussat, Cédric
Bouallag, Rebecca
Zabar** *Degradation of closed-cell polyester urethane museum objects.
Description, analysis of damage phenomena and preventive
conservation*

**Suzan de Groot,
Carien van Aubel,
Olivia van Rooijen,
Henk van Keulen,
Lydia Beerkens** *The Plastics Identification Tool: how to identify without analytical
equipment*

Oral Presentations

Thursday, 30 May 2019 Preservation, conservation, characterisation

Session B: Library | Chair: Valentina Pintus

**Valentina Pintus,
Martina Pfenninger** *Where Science meets Practice: Investigation of Synthetic Organic
Materials and their Challenges at the Department of Conservation-*

Lepage, Gerda Kaltenbruner	<i>Restoration of Modern and Contemporary Art at the Academy of Fine Arts Vienna</i>
Louise S. Beck, Clara Deck	<i>Hard Rubber – Identification, Deterioration, and Treatment</i>
Oral Presentations	
Friday, 31 May 2019 Hipoms' history	
Session A: Auditorium Chair: Penny Sparke	
Tim A. Osswald	<i>Hermann Mark – The Father of Polymer Science</i>
Susan Mossman	<i>Cellulosics – a circle of sustainability</i>
Paula Mota Santos	<i>Factory life and gendered narratives: Leiria plastic workers' memories</i>
Louise Dennis	<i>Making Connections: The Development of Relationships between Museum Visitors and Objects of Historic Polymeric Materials</i>
Oral Presentations	
Friday, 31 May 2019 Museums, Collections, Archives	
Session B: Library Chair: Anita Quye	
Lisa Burkart, Laura Bode, Johannes Heyn, Christian Bonten, Friederike Waentig	<i>Surviving After a Fire – Moving the German Plastics Museum</i>
Charlotte Marriott, Katie O'Brien	<i>Put a Plaster on It: Surveying plastics at IWM</i>
Eline van der Velde	<i>Project 'Know, name and assess your plastics'</i>
Elisa Storage	<i>An introduction to the Kartell Museum</i>
Oral Presentations	
Friday, 31 May 2019 Hipoms' History	
Session A: Auditorium Chair: Susanne Rehn-Taube	
Elena Helerea, Laura Leluțiu	<i>The market of plastics in Romania seen through the eyes of Journal of Plastic Materials and newspapers</i>
Susanne Rehn- Taube, Susanne Brunner	<i>Chemistry at the Deutsches Museum München: a collection of plastics</i>
Isabelle Marina Held	<i>Upwards and Inwards: Plastics Foam's Expansion from Military-Industrial Material to Female Flesh in the Postwar US, 1939 – 1976</i>

Oral Presentations

Friday, 31 May 2019 Scientific Analysis for the Conservation of Cellulose Acetate

Session B: Library | Chair: Katherine Curran

Argyro Gili, Rose King, Luca Mazzei, Josep Grau-Bové, Robert Koestler, Michael Petr, Odile Madden, Simoní Da Ros, Katherine Curran

Modelling and Measuring the Diethyl Phthalate Plasticiser loss from Cellulose Acetate indifferent ventilation scenarios

Joyce H. Townsend, Stephen Hackney, Mark Kearney

A critical assessment of AD strips used in degradation studies for artworks made from cellulose acetate

Simoní Da Ros, Isabella del Gaudio, Argyro Gili, Ida Ahmad, Joyce H. Townsend, Abby Moore, Deborah Cane, Katherine Curran

A long-term degradation experiment: What really happens with plastic artworks in museum storage environments?

Oral Presentations

Friday, 31 May 2019 Hipoms' History

Session A: Auditorium | Chair: Geoffrey Mitchell

Geoffrey Mitchell, Fred Davis

85 years of the rise and fall of polyolefins

Elena Zaitseva-Baum

The birth of the Russian plastics industry. To the history of production of Carbolite

Annelise Heinz

Plastic Game Pieces and the Making of Jewish American Ethnicity

Oral Presentations

Friday, 31 May 2019 Preservation, conservation, characterisation

Session B: Library | Chair: Anna Micheluz

Fabiola Rocco, Antonio Mirabile, Michela Cardinali, Anna Piccirillo, Giulia Germinario, Marcella Turchetti

Progetto Aster: The Olivetti's creativity contained in a letter. Research into flattening methods for reshaping degraded cellulose acetate foils

Maria Lörzel

Cellulose Acetate in "The Transparent Figures" – the Significance of a Material for the History, Production, Condition and Conservation of Educational Models Made by the German Hygiene-Museum Dresden 1925 – 2000

Anna Micheluz, Christina Elsässe, P. Montag, Marisa Pamplona	<i>Challenges in characterization of 3D-cellulose nitrate objects: Experimental design and preliminary results</i>
Oral Presentations	
Friday, 31 May 2019 Hipoms in Art, Design	
Session A: Auditorium Chair: Mariele Neudecker	
Mariele Neudecker	<i>Plastic Vanitas, and how re-contextualising plastics can connect to life's precarious mortalities</i>
Sara Liébana Molina	<i>Restoring two "encapsulated" by Darío Villalba</i>
Oral Presentations	
Friday, 31 May 2019 Plastics and Environment	
Session B: Library Chair: Carlos Bernardo	
Carlos A. A. Bernardo	<i>Plastics and Environment: a Threat or an Opportunity?</i>
Juan Fernando Parra Castro	<i>Latin-American plastics and Colombian agriculture. Design, technology and culture</i>
Barbouch Hejer	<i>Plastic Packaging and Ecology Between Attraction and Repulsion</i>
Oral Presentations	
Friday, 31 May 2019 Hipoms in Art, Design	
Session A: Auditorium Chair: Kirsten Hardie	
Kirsten Hardie	<i>The power of plastic in object based-learning: a consideration of the use of historical plastic objects as dynamic tools for learning and teaching in higher education</i>
Günter Lattermann	<i>On the history of the first phenolic resin desk lamp by Christian Dell</i>

As shown, more than fifty oral communications were held at the *Museu Nacional dos Coches* concerning the subject of plastics in all its extent and from all disciplinary perspectives. From natural to semi-synthetic and synthetic plastics, shellac, cellulose acetate and cellulose nitrate, formaldehyde resins, rubbers, polyethylene, polypropylene, polystyrene, poly(methyl methacrylate), polyurethane foams and poly(vinyl chloride) were only some examples of case study plastics covered in these talks. Plastics used by the packaging industry, plastics used by artists, fashion creators and product designers, plastics used in the photographic and cinematographic fields, plastics and their impact in the environment, and also, plastics used in conservation procedures were subjects likewise addressed during the congress, underlining the multi-disciplinary character of the congress audience and speakers. In addition, the history of several plastic companies worldwide, how polymer science and polymer chemistry has been taught and how plastic objects carry out not only material and technologic knowledge but also emotions and intangible values was also a theme of interest during the congress. In sum, plastics proved to be a tremendous broader subject, capable of

uniting methodologies from several fields of knowledge (from social and human sciences to exact and natural sciences) and capable of uniting a broader audience that wants to know more about this ordinary material “that we love to hate”, and that has changed our life in such a radical way.

Besides all presentations that were delivered in a suitable lecture hall, and followed by discussions, there were poster sessions scheduled in the National Coach Museum exhibition area. This congress provided to all poster presenters the opportunity to present a **Poster Flash Talk** which purpose was to stimulate the audience to view the posters and to discuss the research with the entire audience during the whole congress breaks, posters social time in the exhibition area, where the posters were displayed. More than forty posters were presented by conservators, industrialists and historians were during the two days of the conference, highlighting the interdisciplinary character of the congress on the common subject that were plastics:

Authors	Title
Poster Presentations	
P1 - Aleksandra Papis, Margrit Bormann	<i>How to approach mass objects? About the development of a standardized glossary and a digital database</i>
P2 - Nevena Ilic	<i>Film photography and the creation of a visual world</i>
P3 - Francesca Cardinali, Caitlin Southwick, Mariana Escamilla, Ariana McSweeney, Julia Wagner	<i>Use of Plastic in Conservation and Restoration of Cultural Heritage</i>
P4 - Sarah Caldwell Steele	<i>Jet; the ‘magic’ polymer</i>
P5 - Heike Winkelbauer, Valentina Pintus	<i>Contemporary Polynesian Art in Aotearoa People, Material and Preservation</i>
P6 - Anna Giatti	<i>Polymeric materials in the historical scientific collections: various solutions to different needs</i>
P7 - Viola Hofmann	<i>Fashioning polyamide. Plastics in everyday life of the 1950s and 1960s</i>
P9 - Jorge Moniz, Susana Carvalho	<i>A brief history of polymeric materials in paints</i>
P10 - Ion Seres, Elena Helerea	<i>Plastor Company – A history of more than one hundred years</i>
P11 - Laura Leluțiu, Elena Helerea	<i>Plastics Companies in Romania – History and Heritage</i>
P12 - Inês Matoso	<i>Poliversal Plasteme moments from 50 years of commercial and industrial success: trust, quality and innovation</i>

P13 - Jurga Bagdzevičienė, Jūratė Senvaitienė, Bronė Kunkulienė, Janina Lukšėnienė	<i>Investigation into Reasons for Disintegration of Amber with Inorganic Inclusions and Conservation Method</i>
P14 - Julianne Bell and Petronella Nel	<i>Optimising an ATR and Reflectance FTIR Analysis Methodology for Identifying Three Dimensional Polymeric Objects in Cultural Heritage Collections</i>
P15 - Ida Ahmad, Katherine Curran, Simoni da Ros, Isabella del Gaudio, Argyro Gili, Deborah Cane, Joyce Townsend, Luca Mazzei	<i>A System Dynamics Approach to Modelling Degradation in Cellulose Acetate Film</i>
P16 - Pina di Pasqua, Alice Hansen	<i>Collecting plastic emotions</i>
P18 - Erich Jelen	<i>Degradation of plastic art: What to do?</i>
P19 - Maria Leite	<i>Study on Thermoplastic Synthetic Polymers Used as Supports in Contemporary Art Works</i>
P20 - Francesca Modugno, Jacopo La Nasa, Ilaria Degano, Fabiana Cordella, Adele Ferretti, Maria Perla Colombini	<i>Selected ion flow tube-mass spectrometry (SIFT-MS) in heritage science: non-invasive VOCs profiling of natural and synthetic resins</i>
P21 - Alice Hansen, Giovanna Cassese, Gabriella Russo, Maria Antonietta Di Marco	<i>Pratone: planning the preservation of an icon</i>
P22 - Yvonne Hed, Asbjørn Iveland, Erik Nygaard, Harry Øysæd, Jorunn Nilsen	<i>Conservation and active “post-stabilization” of plastics in cultural heritage</i>
P23 - Kateřina Hricková, B. Benetková, M. Nováková, M. Ďurovič, V. Knotek, H. Sýkorová, J. Kadavá, D. Savická, K. Demnerová	<i>Optimization of Microbiological Sampling Methods for Light Sensitive Layer of Historical Photographic and Film Materials</i>
P24 - Judith Huber	<i>High-risk neighborhoods ... Spectacles made of cellulose nitrate and cellulose acetate</i>

P25 - Benjamin Kemper	<i>Influence of relative humidity and acetic acid concentration in the air to the loss of plasticizers from cellulose acetate material of the Transparent Figures of the Deutsches Hygiene-Museum Dresden</i>
P26 - Vítězslav Knotek, Petra Vávrová, Radka Kalousková, Jitka Neoralová, Nikola Šipošová, Dana Hřebecká	<i>Synthetic materials in the modern library collections – PVC bookbindings</i>
P27 - Karoliine Korol	<i>Preservation Methodology for Acidic Plastic Objects in Estonian National Museum</i>
P28 - Joana Lia Ferreira, Ana Aguiar-Ricardo, Sara Babo, Teresa Casimiro, Maria Natália Dias Soeiro Cordeiro, Susana França de Sá, André Melo, Maria João Melo, Anita Quye, Ana Maria Ramos, Yvonne Shashoua, Filipe Teixeira, Joana Tomás Ferreira	<i>PlasCO2 – Green CO2 Technologies for the Cleaning of Plastics in Museums and Heritage Collections</i>
P30 - Artur Neves, Maria João Melo, Maria Elvira Callapez	<i>On the trail of Celluloid in Portugal</i>
P30A - Ana Maria Ramos, Artur Neves, Élia Roldão, Joana Silva, Eva Mariasole Angelin and Maria João Melo	<i>“NEMOSINE: Innovative packaging solutions for storage and conservation of 20th century cultural heritage of artefacts based on cellulose derivatives”</i>
P31 - Sofia Nunes, Eva Mariasole Angelin, Sara Babo, Artur Neves, Maria João Melo	<i>Cellulose acetate in works of art: exploring the causes of its degradation</i>
P32 - Valentina Pintus, Manfred Schreiner	<i>Modern Paint Composition and Limits: Material characterization and degradation processes</i>
P33 - Anna Pokorska, Lindsay MacDonald, Elise Talgorn, Boris Pretzel, Stuart Robson, Katherine Curran	<i>Development of a framework for assessing the light stability of plastic objects in heritage collections</i>

P34 - Sara Russo, Simone Caglio, Tommaso Poli, Bruna Mariani, Isabella Villafranca-Soissons	<i>The challenge of time – Restoration of a 1960s PVC sculpture</i>
P35 - Donald Sale, Angelica Bartoletti, Laurent Bozec, Marianne Odlyh	<i>Towards conserving PMMA in art and design: investigating solvent impact and aging with nano thermal analysis</i>
P36 - Margarita San Andrés, Ruth Chércoles, Eduardo Navarro, José Manuel de la Roja, Javier Gorostiza, Elena Blanch	<i>Use of PLA and ABS in 3D printing for Fine Art. Analysis of filament and print composition and long term behaviour</i>
P37 - Petra Vávrová, Jiří Brožek, Jitka Neoralová, Dana Hřebecká, Nikola Šipošová, Michaela Čermáková, Lucie Koukalová, Vítězslav Knotek, Radka Kalousková, Lenka Malinová	<i>Synthetic materials in the modern library collections – national project</i>
P38 - Mireya Arenas, Silvia Garcia Fernandez-Villa	<i>When Present is becoming Past: Conservation Concerns of Plastics used in Photo Mountings</i>
P39 - Carolien Adriaansche	<i>Plastic pollution, climate change, sealevelrise: are ‘Floating Cities’ the solution?</i>
P40 - Aleksandra Ubertowska	<i>Seeking a New Form of Hybridity: Plastic Waste vs. Plants in Ecological Art.</i>
P41 - Sara Babo, Joana Lia Ferreira	<i>PMMA: a survey on acrylic sheet in Portuguese art PMMA: a survey on acrylic sheet in Portuguese art collections</i>
P42 - Sara Marques da Cruz, Maria Elvira Callapez, Raquel Ferreira Coimbra, Sofia Rodrigues, Vânia Carvalho	<i>An Exhibition on Historic Polymeric Materials (Hipoms) at Leiria Museum</i>
P43 - Anja Sandtrø	<i>Establishing a Common Ground for Plastics Conservation in Norway: a Meeting Point for Conservators and the Plastics Industry</i>

P44 - Medina Steponavičiūtė	<i>Archeological plastics in National Museum – Palace of the Grand Dukes of Lithuania collection: identification, conservation, and preservation</i>
P45 - Sandra Vazquez-Perez	<i>What happened with the new museum for the famous Compasso d'Oro collection award?</i>
P46 - Laila Zwisler	<i>Plastics in the history Engineering Science</i>
P47 - Silvia G. Fernández-Villa, Ruth Chércoles, Margarita San Andrés	<i>Effectiveness evaluation of Molisch's Test for the identification of historical cellulose plastics. First results</i>

A **poster award** was considered for the three best posters with a **cash prize** of Euro **400, 300 and 200** respectively. The congress was preceded by the YHIP 2019, an intensive Summer School/Research Seminar on Historic Polymeric Materials (HIPOMS) and Cultural Heritage Research for graduate students, postdoctoral researchers, and other scientists, hosted by Faculty of Science and Technology, NOVA University of Lisbon, aiming at exploring novel perspectives relevant to HIPOMS (archaeology, objects, films, design, collections, museums, etc.). The YHIP 2019 featured three keynote talks from notable researchers in different fields of study: **Robert Friedel**, a prominent historian of pioneer plastics, offered the remarkable talk “Social History and Plastics – Some case studies” covering the significance of the historical plastics and how they should be interpreted today based on the study of the social setting in which these materials were introduced; **Anita Quye**, a renowned scientist in the field of plastics conservation, showed how research with impact occurs by the junction of the multiple perspectives given by the realms of science and technology, art and humanities, in allusion to the lecture title “Reactions, interactions and cross-linking – impactful pathways in plastics cultural heritage research”; **Günter Lattermann**, a macromolecular chemist with a notorious role in the study of HIPOMS history, in his talk “Heavy Pressures, Hot Forms – Early Plastic History” stated that we can only face plastics future challenges by understanding their historical development. Together with the active participation of the discussion leaders **Gabriele Oropallo** and **Joana Lia Ferreira** in fostering a multi-disciplinary discussion, their contributions were essential for a new viewpoint on the complexity of historic polymeric materials research and for the development of novel ideas for the future.

This two-day seminar course had 14 participants, featuring 5 oral presentations (10 minutes + 5 discussion) and 7 poster presentations. As in the Plastics Heritage Congress, it was provided to all poster presenters the opportunity to present a Poster Flash Talk (3 minutes). These presentations addressed a broad spectrum of issues related to HIPOMS:

Speakers	Title
Oral Presentations	
O1 - Anna Micheluz and Christina Elsässer	<i>Challenges and opportunities in assessing the effectiveness and harmfulness of storage conditions for three-dimensional cellulose nitrate museum objects</i>
O2 - Anne Biber	<i>Colours of a collection. Surveying museum objects on the colouring of historic plastics.</i>
O3 - Artur Neves	<i>The plastics' harbinger in Portugal: unveiling past production for celluloid's preservation</i>

O4 – Cancy Chu and Julianne Bell	<i>The PolyMuse Project: Challenges and Lessons in Australian Polymer Conservation Research</i>
O5 - Maria Loerzel	<i>“The Transparent Figures” – History, Materials, Production and Active Conservation</i>
Poster Presentations	
P1 - Anthi Maria Soulioti	<i>Under the radar: The Conservation of a 19th Century Plastic Stethoscope</i>
P2 - Élia Roldão	<i>Contributions for the preservation of plastic negatives</i>
P3 - Eva Mariasole Angelin	<i>The fate of colours in the 20th-21st centuries: preserving organic colorants in plastic artefacts</i>
P4 - Ilaria Saccani	<i>Structures of air: PVC inflatable artifacts by Studio De Pas, D’Urbino, Lomazzi and Franco Mazzucchelli installations.</i>
P5 - Laura Pagnin	<i>Multispectral Investigations for Characterizing UV-light Degradation of Modern Art Materials</i>
P6 - Sara Babo	<i>Conservation studies on poly (methyl methacrylate): understanding the influence of industrial and artistic production processes on the degradation of Portuguese artworks with acrylic sheet</i>
P7 - Sofia Nunes	<i>Cellulose acetate in works of art: exploring the causes of its degradation</i>

The culmination YHIP 2019 was a roundtable discussion entitled “Materialities and Heritage” focused on the questions brought by the different approaches presented. Themes such as the meaning of plastics in society, the problems of the Anthropocene or on good practices in the preservation of historical plastics were debated. One of the main goals of this two-day seminar course was to breed friendships to blossom into fruitful collaborations. It was clear that YHIP 2019 stimulated the dialogue among the participants who share this same goal of valuing and preserving HIPOMS. We are pleased to conclude that all the proposed objectives for YHIP 2019 have been met.

On the Congress website (<http://plasticsheritage2019.ciuhct.org/>) it is possible to find a photo gallery of the event as well as additional information: <http://plasticsheritage2019.ciuhct.org/post-congress/>

The exhibition “Plasticity – A History of Plastics in Portugal” was also part of the event’s agenda. This exhibition (https://www.cm-leiria.pt/pages/673?event_id=4163), taking place at Museu de Leiria, has been met with great enthusiasm since its official inauguration in April this year, where around 400 people gathered once again to discuss the relevance of plastic materials.

It’s worth to mention that the exhibition “Plasticity – A History of Plastics in Portugal” awarded the Dibner Prize 2019 Dibner for Excellence in Museum Exhibits.

(<https://www.historyoftechnology.org/2019/10/20/society-for-the-history-of-technology-award-and-fellowship-winners-2019/>); https://www.cm-leiria.pt/pages/617?news_id=3833

Maria Elvira Callapez from CIUHCT-FCUL, Susana França de Sá, Maria João Melo, Artur Neves and Eva Mariasole Angelin from the Department of Conservation and Restoration of Faculdade de Ciências e Tecnologia da Universidade NOVA de Lisboa, took up the organization of the Congress and the Summer School.

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

OPEN FOR APPLICATION - [Moran Award for History of Science Research, 2020](#)

The Moran Award for History of Science Research is aimed at **postgraduate students and early career researchers** with expertise in the history of Australian science. The award is **AU\$5000** (increased from \$2,500 last year) that can be used towards the researcher's travel and accommodation costs for accessing archives that record the history of science in Australia. *Note: While the awardee will be requested to undertake their research and travels by the end of 2021, this may be extended depending on the duration of the COVID-19 pandemic travel restrictions.*

Applications can be made through the Academy website via the

link: <https://www.science.org.au/moran-history-science-research-award>. Applications close on **Monday 1 June 2020**.

Below is a summary of the award. Further information can be found at the website link above or through our [Frequently Asked Questions](#). A story on the 2019 awardee Dr Ruth Morgan can be found [here](#).

[Moran Award for History of Science Research, 2020](#)

Highlights:

- The 2020 award is open to candidates from all genders; applications from female researchers are highly encouraged by the Academy
- Award amount: AUD5,000 towards travel and accommodation costs to access archives that record the history of Australian science
- normally available to undertake their research and travels by the end of 2021 – this may be extended, depending on the duration of the COVID-19 pandemic travel restrictions

Selection Criteria:

The candidate must:

- have expertise in the history of Australian science
- provide evidence of qualifications, a summary of professional/research experience and publications/presentations in the field along with two referee reports
- provide a brief outline of the proposed project and the archives to be consulted

Multiple applications:

- Applicants can only receive funding from the same research or travelling research award once in a three-calendar year period
- Applicants may apply for more than one award but can only receive one Academy travelling or research award per calendar year.

Leibniz University Hannover and Bielefeld University (Germany)

The Research Training Group *Integrating Ethics and Epistemology of Scientific Research* at Leibniz University Hannover, Germany currently have five job openings for PhD candidates in Ethics and/or Philosophy of Science. Leibniz University Hannover and Bielefeld University (Germany) invite applications for the position of:

5 Doctoral Candidates (m/f/d) (salary scale E13 TV-L, 65%) in Ethics of Science and/or Philosophy of Science starting 1 October 2020, within the Graduiertenkolleg (research training group) GRK 2073 "Integrating Ethics and Epistemology of Scientific Research". The positions are limited to 3 years.

At least two of the positions are expected to be located at Leibniz University Hannover and at least two at Bielefeld University. **Application deadline: 31 May 2020.**

For further information and our Application Guide, please see <https://grk2073.org/apply/>.

Please do not hesitate to contact me with any questions you may have.

Best regards and be well,

Leonie Wiemeyer
Koordinatorin | Coordinator
Pronomen sie/ihr | pronouns she/her

DFG-Graduiertenkolleg 2073 "Integrating Ethics and Epistemology of Scientific Research"
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Find us online at <https://grk2073.org/>!

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