



# Biennial Report 2021-2022

Future Humanities

**Division of History of Science, Technology and Environment  
with KTH Environmental Humanities Laboratory**

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OTW

**COVER PHOTO**

Copenhagen Infrastructure Partners had put up a small table at the industry event World Forum Offshore Wind Asia Pacific Forum attended by division member Thomas Harbøll Schrøder in Taipei in May 2023. On the table are model wind turbines as those powering the Changfang and Xidao offshore wind farms in the Taiwan Strait. Next to the wind turbines is a slice of the submarine cable that transmits the generated electricity. On the right side of the table are a Danish and two Taiwanese flags representing the strong engagement of the Danish wind industry in Taiwan's current large-scale offshore wind development. The picture represents an element of environmental visions moving and transforming through time and space, a theme of an article by Thomas Harbøll Schrøder and Sabine Höhler currently under review and with the title, "Travelling Tales of Modern Green Nations: Sociotechnical Imaginaries of Wind Energy in Denmark and Taiwan."  
Photo: Thomas Harbøll Schrøder



KTH main campus in the autumn. Photo: Abhineet Tomar



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# Foreword

The Division of History at KTH has published reports since the beginning of the 1990s. Until 2011, they were annual and contained basic information on staff, courses, seminars, and a record of activities by individual scholars: publications, conference presentations, PhD degrees. As the Division grew and diversified, we decided to turn the necessity, to document our activities, into a virtue. Our idea was that reporting could be a way of enhancing the collective learning experience about our shared scholarly work environment. How it works and how it can work better – both in academic performance and as a workplace and a community.

The first new report covered the years 2012 to 2014. The following reports have been biennial, and this one for 2021-2022 is the fifth in the new series. The reports have been thematized: Defining Humanities (2015-2016), Transformative Humanities (2017-2018), Integrative Humanities (2019-2020), and, this time, Future Humanities (2021-2022).

Future Humanities is a timely topic in our current times of crisis in the world today. Crisis calls for transition and, perhaps even more, transformation. This means looking ahead. The humanities are changing. In fact, our Division is itself an active part of the change. We are non-traditional, and in being that we represent important features of the emerging critical humanities: interdisciplinary, flexible, mission oriented, integrative. We are part of a large engineering school, which in and of itself is rare for humanist scholars in Sweden, although it is a far more established tradition in other parts of Europe, North America, and even in Asia.

We work actively to enhance humanities contributions, both to the KTH curriculum and to enrich humanities research. One of our new major projects, starting in 2023, is a Wallenberg Foundations funded effort called KTH Future Humanities Initiative. Its aim is to develop new courses and teaching material for establishing humanities in professional schools, with KTH as an experimental platform. The project

is hosted by the KTH Environmental Humanities Laboratory – that was just enhanced to the status of a KTH Centre – but it will engage and draw on staff from the entire Division. In addition, we carry out historical research into the humanities itself as part of a Vinnova-funded research platform shared with the School of Economics at Lund University, Making Universities Matter. A book from it is a volume devoted precisely to the significance of the humanities, *Humanvetenskapernas verkningar* (Dialogos, 2021), edited by Linus Salö. A landmark volume on a topic too little studied before. Its message: the humanities punch above their weight!

The Division and the EHL are a diverse community of scholars with history as our core. We will continue to build our research groups and projects with specialists in fields such as anthropology, ecology, film, linguistics, education, STS, literary scholarship, media studies – and many others, as our research needs and our innovativeness require.

This report, like the previous ones in the new series, is composed to reflect our diversity, and the conviviality and satisfaction we find in working on urgent issues in a spirit of responsibility and humanism. A biennial report is a marker of time that has passed. Our report is part of the future also because it allows for those who come after us to better understand what we were up to in the early years of the Agenda 2030 decade, with war raging in Europe and a deepening climate crisis. How we made our priorities, what we wanted to achieve. This includes how we conceived of the future.

We would like to thank all contributors – of texts, visuals, ideas, editorial assistance, and for sharing updated information.

**Timos Karpouzoglou, Sofia Jonsson & Sverker Sörlin**  
Editorial team

# Key information





# The Division

—SABINE HÖHLER AND SOFIA JONSSON

**E**ntering a pandemic was a trial in many ways, but it proved at least as difficult to leave the pandemic state behind.

In both respects, the years of 2021 and 2022 challenged our work community. We started the year 2021 in quarantine. Working at the office was the exception. We continued struggling with digital workplace meetings, with Higher Seminars online, and with teaching on distance. We tried to find ways to keep being social through our computer screens and to feel that we belonged to a shared work environment.

A lot came to a halt in the pandemic society, but the home offices of the Division were as busy as ever. With much hope inspired by the first Covid-19 vaccines delivered in the spring in the spring of 2021, we kept preparing for one of our biggest international events in years, the STREAMS – Transformative Environmental Humanities conference, to be held at KTH, during 3-6 August, 2021. Ultimately, however, instead of welcoming several hundred participants to a get-together in Stockholm, we chose to go online. This solution saved the event but made us face problems which we had been blissfully oblivious of in the past. For instance, making an online event a social and network-building event, although lacking a proper platform to start with. For the small organizing team, this was a huge burden. It felt as if the work never ended. On the bright side, we avoided flying in

people, and we enjoyed each other's company on site, filling the Division's empty corridors with life for a few hot days in August. Although the story of STREAMS turned out very different from what we had imagined, it had a happy ending.

In the thick of things, we continued to engage in research and related public and art activities. Several new projects received funding in 2021. Lize-Marié van der Watt was awarded Correct to 1.4 million euros. Euros for her research project "Decay Without Mourning: Future-Thinking Heritage Practices" in the program "Global Issues - Integrating Different Perspectives on Heritage and Change" funded by Riksbankens Jubileumsfond, Fondazione Compagnia di San Paolo, and Volkswagen Foundation. Through the work of Timos Karpouzoglou, Katarina Larsen, and David Nilsson and their project NATURE - "Examining Nature and Society through Urban Infrastructure", we entered a collaboration with Stockholm's art gallery Färgfabriken and their exhibition "Symbiosis". When KTH carried out an external Research Assessment Exercise (RAE) in 2021, we received excellent scores and recommendations. The RAE expert panel confirmed our perception of what

humanities research and teaching at an institute of technology can and should achieve. The assessment renewed our confidence to position ourselves, sometimes uncomfortably, at the edges of the traditional disciplines to advance knowledge integration and target present-day societal issues with transformative ambition.

As vaccination efforts progressed, some events could take place on site again. We organized our Division meeting to kick off the fall term in a hybrid format. Dispersed around town, people gathered in small teams in private gardens for group work and connected online for plenary discussions. Later in the fall, some of us had the chance to meet the King and Queen of Sweden for a banquet in the Stockholm City Hall. The Royal couple was present to congratulate our colleague Sverker Sörlin for his reception of the Grand Gold Medal from the Royal Swedish Academy of Engineering Sciences (IVA).

In 2022, when we were meant to settle into the post-pandemic period, we discovered that the 'new normal' was not as different from the 'old normal' as we had expected - apart from the observation that the colleagues had made themselves comfortable at home. We longed for a social workplace, but

we had little ambition to return to the office. Many of us had come to enjoy the positive aspects of working from home. Less disturbance (unless you had small kids, dogs, or people renovating your kitchen) and less commuting time allowed for more flexibility in life. We lured our colleagues back to the office with weekly fika (the famous Swedish coffee break, always including sweets and pastry). And our Higher Seminar series moved completely offline, unless circumstances demanded a digital solution.

The rapid growth of staff we had experienced during the preceding years subsided. During 2021, the Division had about 50 employees. We strengthened the administrative team with a new colleague to answer to the increasing organizational demands on reviewing, assessing, and documenting our work. At the beginning of 2022, we were just below 40 employees. Visitors to the Division, however, finally returned. Guest doctoral students and researchers populated our empty corridors. Things began to look bright. Then the war against Ukraine began. The war shocked our Division and disrupted our work. Our colleagues and many of our cooperating research partners come from Ukraine, Russia, or Belarus. The war also

initiated a chain of support, for example the engagement in the international Scholars at Risk (SAR) network which our colleague Nina Wormbs leads at KTH.

The end of the year 2022 saw quite a few organizational changes. Sabine Höhler handed over the position as Head of Division to Lina Rahm. David Nilsson became deputy head of school as well as head of communication. KTH centrally decided to separate administration organizationally from the departments. As one of few institutions at KTH with administration located at the Division, this reorganization had deafening repercussions; we see the administrative team as our colleagues, not as a service agency we help ourselves to. Most resounding perhaps was Marco Armiero's announcement to leave KTH for a new position in Barcelona. His notice coincided with the long-awaited decision by KTH to turn the Division's Environmental Humanities Laboratory (EHL) into an official KTH Center. The decision lifts the status and the visibility of our international flagship project which Marco built up and developed over the past decade. We can only pledge that we will continue the EHL's mission in Marco's spirit. As always, there is a lot of work ahead.

# Environmental Humanities Laboratory

— MARCO ARMIERO AND ANJA RIESER

In March 2022, we launched the Atlas of the Other Worlds, the major output coming out of the research project Occupy Climate Change! (OCC!). The Atlas is an open-access living archive collecting urban grassroots initiatives and city initiatives that are tackling climate change across the globe and collecting people's creative stories of futures they imagine. The launch was digital which allowed anyone in our global community to join, and made it possible to gather all the project's researchers to present key findings from their OCC! research. A quote that stayed with us came from a student sharing her and her co-student's reflections on working on these entries.

"The thing they liked the most about working with you guys (at the OCC!) is to make this bridge between academia and civil society, in order to face climate change. The people that wrote the fictional stories were so happy to use their imaginations to think of other possible worlds and to understand climate change from a bottom-up perspective. Also, one student said that working with you gave her hope and felt that the sum of the small actions can help to tackle climate."

Through 2021 and 2022, we continued with our Undisciplining seminars, inviting scholars to explore the meaning and practices of what being undisciplined might imply.

Undisciplining the environmental humanities was also a major focus in our

conference "STREAMS- Transformative Environmental Humanities", the first global conference on Environmental Humanities that took place in August 2021. Three days were filled with various "streams" of activities, with multiple topics and endeavors including earth system risks, petro cultures, nuclear narratives, EH in practice, crisis and transformation, earthly satellites, extinction narratives, beyond coloniality, toxicity and more-than-humans and multispecies futures – just to mention some. We had five great keynote speakers, Adeline Johns-Putra, Jürgen Renn, Michelle Bastian, Julie Sze, Dipesh Chakrabarty, James Ogude, and a concluding keynote roundtable with Julia A. Thomas, Sverker Sörlin, Sabine Höhler, and Rolando Vazquez on "The Future History of the Anthropocene", chaired by Adam Wickberg.

The annual Archipelago lecture that opens the academic year for EHL 2021 was all digital with Kathryn Yusoff, author of "A Billion Black Anthropocenes or None" and Professor of Inhuman Geography, at the Queen Mary University of London. In her talk entitled "Colonial Earths and Inhumanities", Prof Yusoff forcefully presented her ideas on how colonialism and its kin climate change have initiated extractivism and massive disruption of the earth's matter, arguing how crucial it is to understand the Environmental Humanities alongside its colonial twin—the Inhumanities

ties—in order to remake broken worlds.

A year later we finally could expand the format, and went for a hybrid event, inviting Rob Nixon, author of “Slow Violence and Environmentalism of the Poor” and Professor in Humanities and the Environment at Princeton University. Nixon’s talk “The Less Selfish Gene: Forest Altruism, Neoliberalism, and the Tree of Life” examined the great interest in forest dynamics and communications, arguing its appeal is rooted in a widespread discontent with neoliberalism’s antipathy to cooperative ways, where forest dynamics is offering us a counter-narrative of flourishing.

Despite OCC! original end in 2021, the project continued into a new phase, as previously mentioned launching the Atlas, as well as having its first edition of an online OCC! school. We organized a two-weekend online school in winter 2022, targeted to early-career researchers interested in exploring climate change and its consequences of loss and damage, through an interdisciplinary lens. The students wrote entries on grass-roots or city-led initiatives tackling climate change, or fictional future stories, which were fed into our Atlas. We got around 40 students participating from twenty countries! Combined with positive feedback and renewed funding supported by the KTH Climate Action Centre, we had our second edition in spring 2023, continuing to nurture these needed communities of inquiry.

The first editions of our beloved film festival Crosscuts in 2018 and 2019 gathered a wide audience and facilitated crucial discussions on a multitude of topics, including, postcoloniality, indigenous politics, and

relational filmmaking, bridging academia with filmmaking and activism. For the 2022 edition, we scaled into a less intensive format and had a great one-day event at KTH. The 2022 edition explored specifically “extrativism” of our precious earth, giving space to the voices of the marginalized, both indigenous and non-humans of the world, exploring topics concerning Deep Sea Mining, environmental movements, and Sami art and culture, with eco-poetry performances about Amazonia plastics, and multispecies relations.

In addition to these events and OCC! continuing its journey, two new EHL projects have started. We welcomed Nuno Silva Da Marques with his project “Air Epistemologies: Practices of Eco poetry in Ibero American Atmospheres” and the project “Harnessing the heat below us” led by post-doctoral Andreas Roos.

As of January 1, 2023, the EHL received a distinguished recognition of KTH by transitioning the EHL to a KTH Centre. We marked its beginning with a small launch in January 2023, and plans and ideas are brewing and we are excited about what the future of EHL will continue to achieve.

The transformation of the EHL into a Centre marked also the shift to a new leadership for us. Marco Armiero has left KTH to become an ICREA Research Professor at the Autonomous University of Barcelona, a highly prestigious recognition of his achievements. Nonetheless, we are counting to continue our collaboration and build upon his legacy. Among us, we say that once you have been at the EHL, you are at the EHL forever...

# Undergraduate Teaching

— PER HÖGSELIUS

**T**he Division of History does not run any programme of its own, although efforts are ongoing to try and create one. Until that happens our teaching mainly takes the form of courses that are either part of engineering programmes or constitute elective or conditionally elective courses. Roughly half of our students are exchange students or foreign master students.

During 2021 and 2022 the Division offered four first-cycle (basic) and seven second-cycle (advanced) courses:

#### First-cycle courses:

- AK1202 History of Science and Technology
- AK1204 Environmental History
- AK1205 Science Goes Fiction
- AK1213 Swedish Society, Industry and Culture in Historical Perspective

#### Second-cycle courses:

- AK2201 Energy and Geopolitics
- AK2202 Gender and Technology
- AK2203 Media, Technology and Culture
- AK2207/AK2209 Energy Systems in Society
- AK2210 Political Ecology
- AK2215 Water Systems in Society

The last of these, *Water Systems in Society*, is our newest course, developed by Timos Karpouzoglou and given for the first time in spring 2022. It was modelled after the already existing *Energy Systems in Society* courses.

A major new development during 2021 and 2022 has been the Division's effort to set up several new life-long learning courses. We have done so in response to a new wider development at KTH, which aims to offer, in the future, 20% of all teaching in a life-long learning context. No fewer than six new life-long learning courses were successfully launched so far:

- AK121V The Climate Crisis as a Societal Problem
- AK122V Artificial Intelligence and Sustainable Development
- AK123V Stockholm's History of Technology
- AK124V Transition: Pathways to a Fossil-Free Society
- AK125V Technology and Society
- AK126V The Anthropocene

Photo: Skynesher



Some of our courses were taught in English and others in Swedish. Most of our staff – senior scholars and PhD students alike – were involved in teaching and course-work in one way or the other. Since 2014 Per Högselius serves as the Division’s director of undergraduate studies.

By far our largest course, in terms of revenue and student numbers, is AK1213 Swedish Society, Culture and Industry in Historical Perspective, a thematically

broad course that plays an important KTH-wide role in introducing foreign students to Sweden and Swedish history. After a downturn during the pandemic, when nearly all foreign students returned to their home countries, the course is now flourishing again. Our second-largest course is AK2207 Energy Systems in Society, which is mandatory in KTH’s Energy and Environment programme.

# PhD training

— NINA WORMBS

**O**ur PhD subject, History of Science, Technology and Environment, has students which is a considerable cohort for the humanities, given the fact that they are all externally funded. Five are women and eight are men which means that we almost meet the 40/60 target of gender balance. During 2021, Erik Ljungberg was accepted as a PhD candidate with us, financed by Wallenberg WASP-HS.

During 2021, three PhD students defended their doctoral theses. On June 2, Corinna Röver defended “Making Reindeer: The Negotiation of an Arctic Animal in Modern Swedish Sápmi, 1920-2020,”

On August 20, Dmitry Arzyutov “Reassembling the Environmental Archives of the Cold War: Perspectives from the Russian North”.

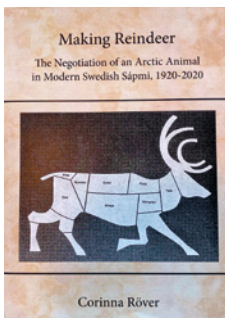
And on October 1, Irma. Allen, “Dirty coal: Industrial populism as purification in Poland’s mining heartland”.

The year 2021 and to some extent also 2022 were still affected by the pandemic and our opportunities for meetings were greatly restricted. This also had an impact on PhD training and dissertation defenses. Some course work and seminars still had to be conducted through zoom. When old restrictions were lifted, our students were also finally allowed to go on conferences and do field work of crucial importance for their research.

During the last few years, the general study plan for our subject has been slightly revised and now incorporates a specialization in Environmental Humanities, for those who wish to have that. We welcome this as some of our students would like to show on their doctoral diplomas that they indeed have deepened their knowledge and expertise in this growing field that the Division has been active for more than a decade.

## Alumni meeting

In 2022, 25 years had passed since the first defense at the Division and that called for celebration. A licentiate thesis was defended in April 1997, and in May there were no less than three doctoral theses defended. That



Publication covers of PhD dissertations defended during 2021-2022.





Reflections shared from alumni in KTH lecture hall (left). Arne Kaijser and Martin Emanuel share memories (upper right). Alumni meeting and having lunch in the division kitchen (bottom right).

was the spring when some of the rituals of celebrating were established at the division, rituals that we still keep today.

In preparation for this celebration, I sent out invitations to everyone who had defended either a licentiate or a doctoral thesis with us and asked them to reflect on their training and to share their stories. This is a large group of alumni and we can learn from them to improve our training. But also to know where their careers took them, and what their thoughts are now.

Out of 41 alumni, 36 wrote texts that we put together in a file titled “Från Lindstedtsvägen till Teknikringen”. The texts were either in Swedish or English with a wonderful variety where authors shared both troubles and dreams, careers and thoughts. Some were longer, pondering life choices and advice taken and not taken, others were more like short summaries. Or even abstracts, congenial with academic publishing. These memories and recollections made an interesting read and someday we might even make a book out of them. For now, it is an electronic file on our institution server.

On May the 20th, we had a celebration

to which came 20 alumni and the first two professors in history of technology, Svante Lindqvist and Arne Kaijser. We had reflections and panels and group discussions between alumni and students who are in the programme now. Svante and Arne started off the discussions by sharing the background to how the PhD training programme started. Administration seemed to be slim. And the first general study plan was only three pages long, without learning objectives and aims for sustainability. And certainly lacking any appendix stating assessment criteria.

The first panel discussed a career outside of academia, featuring Maja Fjæstad, Eva Dahlström Rittsél and Anders Houltz. The second panel dealt with building an academic life where Anna Åberg, Mats Fridlund and Daniel Svensson made contributions. In between, we had group discussions on issues suggested by PhD students presently in the programme.

In the evening we had drinks and dinner and memories were mixed with sharing experiences and thoughts about the future. It was very festive and indeed rewarding to realise the extent of our training so far.

# The higher seminar – why and how

– NINA WORMBS

Every second Monday afternoon we meet after lunch to discuss a text or a presentation. Why do we do that? And can we do it in a different way? These two questions opened a workshop at the annual kick-off in 2021. We had then experienced almost 1, 5 years of digital seminars, due to covid, and I thought it worthwhile to think again about our seminar and what we do with it.

Almost 30 years ago, when I myself was a young PhD student at the Division, I think it might have taken two years before I voluntarily opened my mouth at the seminar. Memory is not to be trusted as we all know, but I think I believed that I could not contribute anything important enough, anything put eloquently enough, making enough references to The Literature. I was not comfortable as an active participant for a long time.

I have changed, as has the Division.

We were then, with few exceptions, only historians. And we spoke Swedish, which was the mother tongue of most. The exceptions were when Thomas Park Hughes or David Edgerton or some other important guest came to visit, and we were all summoned to listen and then go out for dinner and be sociable. We now write for outlets that are extremely different and where viable questions and formats really vary. And we do this, most of us, in a language that is second to us, a language in which our vocabulary is limited and where we perhaps most importantly lack the depth of words and the possibility to find the precise nuances. This puts challenges to us that we need to think about.

I care deeply about the seminar for many reasons. But perhaps the most important one is that the seminar offers a place where the division can become an intellectual “we”. It is our experiment. It is also a place of



A picture of KTH main campus from above. Photo: Petter Karlberg

collegiality, where we can foster ideas of quality, interest, support, innovation and critique. It is a commons, which we freely can access but also destroy with bad behavior, it is – etymologically – a seed bed where small things can grow strong, and it is a recurrent meeting and learning place for us, collectively.

And it has different functions. We learn about new research, often from guests, we present our own ongoing work or research that is about to start, and we use the seminar as a place for training and examining our PhD students. These different functions demand different formats and approaches and we should develop these.

It takes time and effort from all of us to create a good seminar that we like to attend and feel wiser leaving. Perhaps one of the hardest tasks is to give feedback which is at the same time honest and

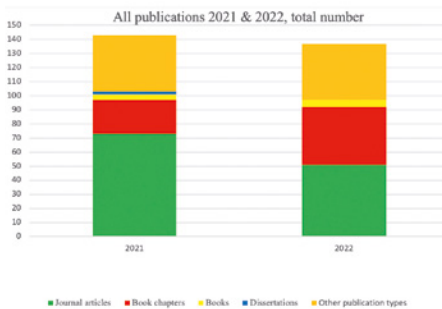
helpful. In general, we are better at giving negative feedback. When something is good, we do not as often elaborate on why and how it is good. But when we have issues with something, we take the time to disentangle, unveil, and criticize. We need to continue doing this to improve, but we must also make sure that we develop our language for this – things can be said in many ways. And, we must strive for a situation where we trust each other and have faith that comments are part of a collective learning process, where we all contribute.

I believe that our seminar is a very good meeting place, and I make my best to make sure that new students don't wait two years to feel that they can make contributions. But I think we can make it even better with new formats and active reflection, so that they become happenings which we all want to attend and be part of.

# Trends in publishing

— KLARA MÜLLER AND SVERKER SÖRLIN

The following section analyses the publication patterns of the Division, primarily based on data collected from the database Digitala Vetenskapliga Arkivet, DiVA.



The division's publications distribution by type during 2021-2022.

There are in total 280 entries registered for the Division in DiVA during in the last two years, 143 for 2021 and 137 for 2022. These numbers comprise all sorts of entries, such as both refereed and non-refereed journal articles, book chapters, books, dissertations and other publication types, including a small number of papers presented orally in conferences.

Those that can be defined as “scientific publications” are registered in DiVA as “refereed” or “other academic”. This demarcation of scientific publications does not include entries marked as “other (popular science, discussion, etc.)” or the subcategories “oral presentation only”, “oral presentation with published abstract”, or posters. However, these “other” categories also provide a picture of how knowledge produced by researchers at the division is diffused and circulates in society, which is of course recognized as a vital aspect of academic work. These categories are presented below under the title “Publishing for wider audiences”.

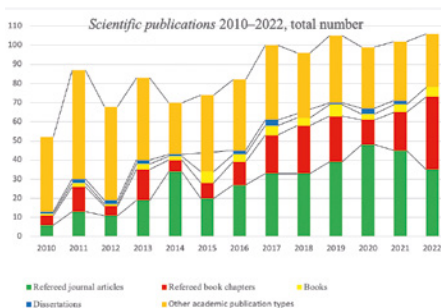
Thus defined, the output of scientific publications in 2021 (102) and 2022 (106) combined is 208, making 2022 the peak year in number of scientific publications. The two dominant publication types are “article in journal” (45 in 2021, 35 in 2022) and “chapter in book” (20 in 2021, 38 in 2022). Together, these two publication types amount to two thirds (66 %) of all scientific publications. The remaining publication types consist of books/monographs, book reviews, PhD theses, reports, and edited collections. We can use the data to identify trends, strengths and weaknesses in publication patterns.

## Overall trends

Overall, the Division's publishing activities have seen a stable increase during the last decade. The most prominent publication category is refereed journal articles, but output of most other categories (refereed book chapters, books, dissertations) has also grown. The exception is the "other academic" publication type, which is smaller now than a decade ago (mainly because conference papers were then more commonly reported). The previous biennial report for 2019-2020 identified a salient rise in peer-reviewed publications and publications published in English. These trends are persisting, marked by 2022 as the year with highest number of scientific publications in the history of the Division.

The trend since the previous decade towards a great diversity of publications across what we may call the integrative humanities is also ongoing with elements of social science also present. The Division's three core areas of history – of science,

technology, and environment – remain well represented, and so is history in general. Of the 73 journals where the Division published in 2021-2022, 14 are designated history journals. In addition, a lot of our historical work is published in many of the other journals listed and in books and book chapters as well. The most frequented outlets during these two years are *Historisk Tidskrift* (Sweden's oldest history journal, 6 entries), *Social Text* (a well-known cultural studies journal with Duke University Press, 3 entries), and *The Extractive Industries and Society* (3 entries). Among the more or less specialized history journals are *European Review of History*, *Geschichte und Gesellschaft*, *History & Technology*, *Legatio* (Diplomatic history), *Lychnos* (History of ideas), *Nuncius* (History of science), *Social History of Medicine, Technology and Culture*. Our work also appears in broad-spectrum high impact journals, during 2021 and 2022 for example *Ambio* and *Science*. In sum, the publication record shows a Division of History with a distinct interdisciplinary orientation. Our publications appear in a broad range of fields with several concentrations, such as, respectively, the history of science, technology and environment, but also in natural resource extraction, energy, water, science studies, urban studies, and the environmental and climate humanities.



Number of publications under the main publication categories during 2010-2022.

### Refereed journals 2021–2022

During 2021 and 2022, members of the Division have been publishing in the following scientific, peer reviewed journals (or yearbooks):

- Ambio
- Annals of Diagnostic Pathology
- Annals of the American Association of Geographers
- Antropologicheskij forum
- Apples – Journal of Applied Language Studies
- Architectural Engineering and Design Management
- Argumentation: An International Journal on Reasoning
- Baltic Worlds
- Cambridge Archaeological Journal
- Central Asian Survey
- Contemporary European History
- Contemporary Studies in Bilingualism and Multilingualism
- Critical Inquiry
- Current Pollution Reports
- Ecological Economics
- Energy Research & Social Science
- Europe-Asia Studies
- European Review of History
- Feminist Theory
- Fish and Fisheries
- Frontiers in Marine Science
- Geoforum
- Geschichte und Gesellschaft
- Global Environmental Politics
- Historisk Tidskrift
- History & Technology
- Human-Computer Interaction
- Humanities
- Humanities and Social Sciences Communications
- Interactions
- International Journal of Cultural Studies
- International Journal of the Sociology of Language
- Italia Contemporanea
- Journal of Education Policy
- Journal of Modern History
- Journal of Transport History
- Kungl. Skogs- och Lantbruksakademiens Tidskrift
- Kungl. Vetenskaps-Societeten i Uppsala: Årsbok
- Landscape Research
- Language in Society
- Learning, Media & Technology
- Legatio: The Journal for Renaissance and Early Modern Diplomatic Studies
- Lingua
- Local Environment: The International Journal of Justice and Sustainability
- Lychnos – lärdomshistoriska samfundets årsbok
- Modern Italy
- Nordic Journal of Educational History
- Norsk Geografisk Tidsskrift
- Nuclear Technology
- Nuncius: Annali di storia della scienza
- Polar Geography
- Polar Record
- Postdigital Science and Education
- Resources, Conservation & Recycling Advances
- Rundfunk und Geschichte
- Scandinavian Economic History Review
- Scandinavian Journal of History
- Science
- Scientometrics
- Social History of Medicine
- Social Text
- Socialmedicinsk Tidskrift

- Språk och stil
- Svenska Linnésällskapetets årsskrift
- Technikgeschichte
- Technology and Culture
- The Extractive Industries and Society
- Urban Planning
- Urban Studies
- Utilities Policy
- Water
- Water Alternatives
- Women's Studies

### Refereed books

During 2021 and 2022, members of the Division published single- or co-authored peer-reviewed monographs, and edited collections with the following English language, or other international academic presses:

- Brill Nijhoff (Leiden, NL)
- Cambridge University Press
- Indrik (Moscow: English & Russian)
- MIT Press (Cambridge, Mass.)
- Manchester University Press
- McGill-Queen's University Press (Montreal)
- Mouton de Gruyter (Berlin)
- Palgrave Macmillan
- Routledge
- Translocal (Portuguese & English)
- West Virginia University Press
- White Horse Press (UK)

### Publishing for wider audiences

This category of publications is not included in the analysis of scientific publications, since it is based on what is defined as “other (popular science, discussion, etc.)” in the DiVA data base. The category “other” has been fairly stable during the last decade, and this is also the case in the last two years.

The stability indicates that the growth of scientific publications has not happened at any severe cost of the engagement by Division scholars in outlets directed toward the public sphere. This is also true for engagement in other media formats such as news media, radio, television, podcasts, museums and art where Division members remain highly active, with more than thirty (34) articles during 2021 and 2022 in the four largest Swedish dailies, with 20 of those in the largest, the *Dagens Nyheter*. In addition, members of the Division frequently appeared on national Swedish Radio and television in newscasts and specialized programming on culture, philosophy, environment, climate, and with essays and personal reflections.

# Faculty, staff, and PhD students 2021 to 2022



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Photo: Woliul Hasan, Unsplash



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# Perspectives

Photo: Max Lissenden, Unsplash







# Deep-sea science and technology in the Mediated Ocean

—TIRZA MEYER

**S**trap your weight belt on and secure your goggles: I want to invite you to a deep dive to the deep-sea and give you a glimpse into my research about the history of deep-sea science and technology and how it is connected to our research in the project Mediated Planet.

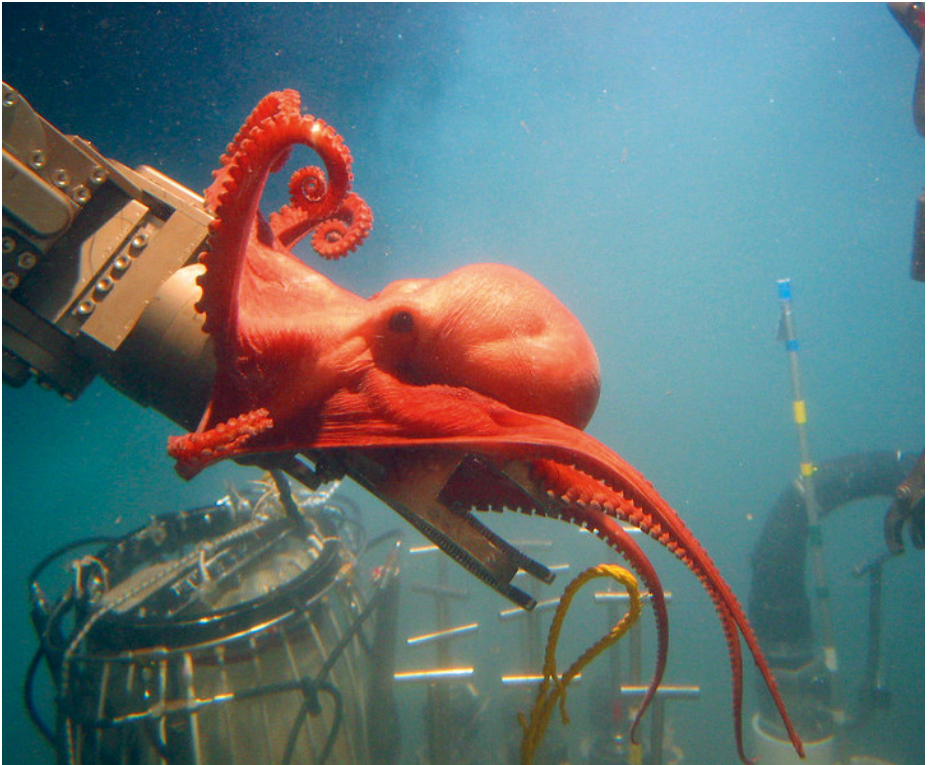
We are going deep, more specifically to the Abyssal and the Hadal zone in the deep ocean. The Abyssal zone starts at 3 000 meters, the Hadal zone is located in the oceanic trenches and ranges from 6 000 to 11 000 meters in depth. Few submersible are equipped to dive deeper than 6 000 meters. Would you board such a vehicle, it would take you around 7 hours to reach that depth. Space is scarce because the sub must tolerate enormous pressure. The smaller the cabin, the better. Deep-sea explorations are inner space missions – fascinating, inspiring and uncomfortable. There is an element of alieneness in the sense that the researchers in the submersible are aliens looking at deep-sea life. Looking, how so? Light in the ocean begins to fade at about 200 meters and disappears at the 1 000 meter mark.

With the submersible's spotlights, non-bioluminescent lights flood the dark so researchers can scan the ocean floor for life and inorganic structures. Flipping the switch could scare, stun, sometimes even hurt deep-sea fauna. Thus observation of deep-sea life from a submersible is not always the best way of recording natural behavior.

A large amount of water, increased pressure and temperature differences lie between the deep sea, me (and you). Had you strapped your weight belt on and secured your goggles as I instructed at the beginning of this text, death would have awaited you at the latest at 121 meters – the human record for freediving. Everything below and much above for an average human is not accessible without complicated gear. In my project, about the history of deep-sea science and technology, I want to understand how humans have tried to make sense of the deep-sea while overcoming all those obstacles. We are ill equipped to venture into the deep, equally disadvantaged are the life-forms at those depths when they come to the surface. Which they do involuntarily ever since a deep-sea trawl scraped up a starfish at 1465 meters in 1819. Their misplacedness becomes apparent once you study old scientific drawings of deep-sea fish. They often look mangled and monstrous with over-prominent teeth and exposed skulls, or missing gelatinous body parts that no one knew existed until deep-sea photography became possible in the 1950's. Only since

then have researchers been able to observe deep-sea life in situ, and lo and behold, most of them do not look as horrific as their mangled counterparts in historical deep-sea collections, like the specimens on the photo I took during my visit to the Natural History Museum in London. Historical collections are extremely valuable for deep-sea science and researchers frequently use them to understand the deep-sea better. In fact, much of the deep-sea remains to be studied remotely either through specimen collections (historical and recent) or autonomous or remotely operated technology.

The Mediated Planet research group here at the division grapples with the question of how our planetary environment is constructed through data or information. We are interested in how environmental data is collected on a planetary scale and mediated through technologies. The Mediated Planet encompasses both the Earth, Outer Space and Inner Space. The history of deep-sea science and technology will add to a subsection of the project: The Mediated Ocean, where we study marine technologies and oceanographic data. We are also interested in the limiting factors of such technologies and the scientific results they produce. Nothing can be understood on a planetary scale without mediation; just like you could not follow me into the ocean without goggles, without a weight belt and – in order to get to the Hadal zone – an ultra-deep submersible.



An octopus taking on the 'Alien'. NOAA Ocean Exploration. 'Expedition to the Deep Slope 2006: May 31 Log. This stunning octopod, *Benthoctopus* sp., seemed quite interested in ALVIN's port manipulator arm. Those inside the sub were surprised by the octopod's inquisitive behavior.' Photo: Bruce Strickrott, Expedition to the Deep Slope.

# Convening power in the Swedish capital: the SPHERE project and the Stockholm Conference

—ERIC PAGLIA

The United Nations Conference on the Human Environment, held in Stockholm in June 1972, is widely regarded as the seminal moment in the history of international environmental politics. The Stockholm Conference, as it is commonly called, established principles that underpinned what later came to be known as sustainable development, led to the creation of institutions such as the UN Environment Programme, and greatly enhanced awareness and political as well as scientific engagement with environmental issues, in both industrialized and developing countries. The Swedish capital thus occupies a central place in the history, memory and lore of what is today often referred to as global environmental governance.

In the years leading up to its 50th anniversary, the 1972 Stockholm Conference served as an inspiration for a series of significant research initiatives arranged by the Division. The first was a three-day workshop in 2016 in which some 25 international experts presented papers and discussed various aspects of the history and legacy of Stockholm 1972. The workshop was held at

the same location in Lidingö where a turning point in the history of climate science – the groundbreaking SMIC conference, Study of Man's Impact on Climate – took place in the summer of 1971 as part of preparations for the Stockholm Conference.

The 2016 workshop in Lidingö not only brought together an emerging network of scholars interested in the Stockholm Conference, but also served as a springboard for what would soon become a major research project based at the Division. A European Research Council advanced grant enabled Sverker Sörlin to launch, in 2018, the project SPHERE—Study of the Planetary Human-Environment Relationship. Running through July 2024, SPHERE has so far encompassed four PhD projects; a post-doctoral position; research and publications by several senior scholars at KTH and elsewhere; two international workshops; a SPHERE podcast; panel presentations at the American Society and European Society of Environmental History, as well as the World Congress of Environmental History; and a PhD-level course on the history of global environmental governance. What is more,



UN environmental protection conference in Stockholm 1972. Photo: Gösta Glase

a book by Sörlin and SPHERE researcher Eric Paglia on the crucial role of Stockholm as a leading international hub for environmental and climate science and politics, *The Human Environment: Stockholm and the Rise of Global Environmental Governance*, will be published in early-2024 with Cambridge University Press.

Fifty years after hosting the first major environmental gathering at the global level, Stockholm would once again be the site of a mega-conference that was intended to not only commemorate past achievements, but also to revitalize longer-term processes that had yet to “save the planet” or fulfill the promise of sustainable development. In June 2022, the governments of Sweden and Kenya – where, in Nairobi, the UNEP secretariat is located – organized under UN auspices a “Stockholm+50” conference that attracted political leaders, environmental advocates and sustainability experts from around the world. Although far less ambitious and consequential than the original Stockholm Conference, lasting only two days compared to the almost two-week event in 1972, the milestone of Stockholm+50 nonetheless



Meeting of SPHERE scholars as part of the workshop ‘Stockholm+50: A half century of Global Environmental Governance’, 1st June, 2022. Photo: Eric Paglia

represented an opportunity for public as well as scholarly reflection on the half-century history and future prospects of global environmental governance.

SPHERE used the occasion to invite leading environmental historians and political scientists to Stockholm to examine and discuss what had been learned, and assess to what extent progress might have been made, in addressing the environmental crisis since the watershed moment in 1972. The dozen or so papers that were presented at the SPHERE workshop “Stockholm+50: A Half-Century of Global Environmental Governance – Taking Stock and Looking Forward” will form the basis of an edited volume planned for publication with an academic press. The series of high-level international workshops and publications inspired by the Stockholm Conference demonstrate that the Division, like the city KTH calls home, enjoys a great deal of convening power. It is also clear that SPHERE, through its contributions to understanding the history of global environmental governance, has become a part of the living legacy of Stockholm 1972.

# Legitimising climate non-action

—NINA WORMBS

**M**ost of us can relate to the feeling of having done something contrary to our intention or knowledge. If this stands in conflict with our values, it does not feel very good, and we might even experience what psychologists have called cognitive dissonance. To get out of that situation, we find ways to legitimise our action. To excuse ourselves basically. This is human. But it could also be a hindrance to climate-change action.

In a research project finalised in 2021 and funded by Riksbankens Jubileumsfond, I and my colleague Maria Wolrath Söderberg analysed how people legitimised their climate-harmful actions. We focused on people who had sustainable values and wanted to “do the right thing”, but failed. We sent out a survey in 2019 through social media and received approximately 400 responses that we could analyse. It turned out that a common way of arguing was to imagine an account or a budget. A typical reasoning was that since one biked to work and recycled, one could also fly.

Another common way was to compare with someone or something that was more harmful than one’s own action, and a third was pointing to the limits of reality, like lack of time to make the sustainable choice.

There were also those who acknowledged that there were indeed goal conflicts in the transformation, which made some choices really hard. We analysed these responses and found that often several arguments could be used to legitimise action.

It was striking that so many of our respondents singled out flying as the situation where they needed to find good arguments. This made us undertake yet another survey where we asked people who had stopped flying for climate reasons how they had come to that position. The results were surprising. Contrary to some literature, knowledge was brought forward as instrumental in this behavioural change. Through experiencing climate change, the issue had become more real and urged them to change. Also fear was brought forward, which confirms general understandings of how fear works. Justice was another factor, rooted in a global and intergenerational view on existence. Furthermore, many talked about the need to be able to look at their children in the eye. In order to live with themselves, they had to listen to their conscience.

Our research is qualitative and we can make no statistical claims on how people in general reason and argue. But we can say a few things about possible ways to argue, and



Front cover of the Report Grounded - Beyond flygskam.  
Photo: Fores

what they might mean. It is clear that these arguments, both those that hinder change and those that lie behind change, are part of processes where meaning is produced. And even though we asked people about their individual actions, it was obvious that a sense of belonging and the social dimension of both change and inertia are key.

In a new research project, funded by Wallenberg, we will further investigate these social dimensions of change.

### Publications from this project

**Wolrath Söderberg, M. & Wormbs, N. (2022)**  
*Internal Deliberation Defending Climate-Harmful Behavior*, *Argumentation: an international journal on reasoning*, Feb 4 (2022)  
[doi.org/10.17645/up.v6i2.3974](https://doi.org/10.17645/up.v6i2.3974)

**N. Wormbs and M. Wolrath Söderberg**  
*Knowledge, Fear, and Conscience: Reasons to Stop Flying Because of Climate Change*, *Urban Planning*, Vol. 6, no 2, 314-324, 2021.  
[doi.org/10.17645/up.v6i2.3974](https://doi.org/10.17645/up.v6i2.3974)

**M. Wolrath Söderberg and N. Wormbs**  
*Grounded – Beyond flygskam*, Stockholm: Fores, Stockholm and European Liberal Forum, Bryssel, 2019.  
[fores.se/publikation/grounded-beyond-flygskam/](https://fores.se/publikation/grounded-beyond-flygskam/)

# Garden of Environmental Humanities

—ERIK LJUNGBERG

A good garden requires a variety of plants, flowers, and trees. They complement and support each other with their different properties. They also enrich the soil with different kinds of nutrients, ensuring a fertile ground for growth. Genetic diversity, too, is enhanced in such a garden, which leads to increased adaptability. An academic division is kind of like a garden. It needs diversity and variety to thrive and flourish. Not all academic divisions have these qualities, but our Division of History of Science, Technology and Environment is perhaps one of them. Since I joined this division a little over a year ago, I have been impressed by the breadth of topics, disciplines, perspectives and academic traditions that are represented within these walls at the northern edge of the KTH campus. Heritage, climate, energy, environment, technology, urban transformations—all of these subjects are studied through the multi-dimensional lens that our researchers use in their work. And gradually, but surely, the outcome of this work permeates the academic soil and

creates a rich reservoir of nutrients that might inspire future ideas and projects.

The resilience and adaptability that comes from a stimulating and diversified research environment is not only a convenient perk, but increasingly a necessity in a changing world. In a society where processes increasingly converge and blend with one another, a researcher needs a varied repertoire of resources in order to stay on top of things. This has been a challenge in my own research where I look at artificial intelligence and machine learning in Swedish forestry. The forest is a bewilderingly multidimensional entity. It encompasses digital, political, technological, economic, social, scientific, natural, environmental and climatic aspects—and more—all at the same time. Each of these aspects deserve their own inquiry and attention. But sometimes it is important not to forget the subtle ways in which they are connected. For instance, forest companies use the allure of AI to draw the interest of investors and lenders. Forest researchers employ the latest laser technol-



Photo: Viktor Malyushev, Unsplash



ogy to obtain new kinds of data about the forest. And policy-makers and climate scientists rely on forest inventories to be precise and current so that they can calculate the carbon flows in the atmosphere. Technology, finance, politics, science and environment are interrelated in significant ways.

To explore these complex and entangled dimensions of the forest, I need to be able to draw on a variety of different perspectives. This is where being part of a diverse and

vibrant academic division comes in handy. By interacting frequently with scholars who offer different resources and insights, I avoid letting my own perspective stagnate. In this way, I am able to conduct my research in an integrative and multidimensional way, and hopefully (who knows), maybe some of that diversity and depth of perspective can benefit others who are interested and curious about the world we live in.

# When a stakeholder meets a mole

—ANDREAS ROOS

One aim of the HARNESS project is to better understand the visions and imaginaries driving geothermal energy development. As part of the project, I met and interviewed people working with deep geothermal development in Sweden. Academics sometimes refer to these types of people as “stakeholders,” an elusive term that in this case includes corporate leaders, investors, local government representatives, and non-governmental actors involved in deep geothermal projects. The environment and perspective of these stakeholders were so far removed from my own perspective rooted in the degrowth movement that I felt like a different animal entirely – perhaps a mole.

Anthropologists sometimes use the fancy concept of “cross-cultural juxtaposition” for comparing cultures to reveal taken-for-granted assumptions. Let us attempt this method on stakeholders and moles, two animals with different imaginaries. Moles rely on their immediate senses, their endosomatic energy, and the safety of their tunnels

(as far as they are not intruded upon by the drilling of stakeholders). Stakeholders rely on the senses of machines, exosomatic energy, and the safety of their investments (as far as they are not intruded upon by the erratic mood of that creature they call the market). Moles prefer shallow subterranean systems, making do with the limited sources of energy that they can harvest. Stakeholders are enthusiastic about exploring the subterranean depths, using great volumes of resources to do it. Moles seem happy and content in their modest subterranean scurrying. In contrast, stakeholders view drilling, investing, and hoping for ever-greater access to resources as essential for their happiness and contentment.

When a stakeholder meets a mole, the stakeholder looks upon the mole in puzzlement and asks whether the mole could offer aid in their attempt at deep subterranean resource extraction. The idea is to drill deep, create the possibility for a subterranean flow of water, and harvest heat by pumping up the heated water. This may very well be a



Lebanese mole, photo by Ahmad Kanbar, Unsplash.

“game-changer,” the stakeholder explains, without further elaboration. Moles are not equipped for deep subterranean exploration and see no real reason for it in light of the alternative – a more modest way of living. While some stakeholders categorize the mole’s way as “bullshit,” a few of the stakeholders are in fact thinking more like moles than they care to admit. However, stakeholders are in some ways compelled to dig deep to safeguard what they perceive as essential for their children’s happiness and contentment (ever-more resources). The mole represents a different perspective and way of digging that may well function as a liberating escape for stakeholders, if they only understood it as an option for fulfilling the same needs.

In this way, my fieldwork for the HARNESS project has yielded an outside perspective on the visions and imaginaries guiding deep geothermal development in Sweden that I hope could be helpful for better facilitating a more unified response to the energy conundrum.

# Four months in Washington D.C.

—SIEGFRIED EVENS

It has been a few months since I came back from my stay in the U.S. And I have to say, I miss it sometimes. But being back in Sweden, I can reflect on the things I have learned and experienced!

I arrived in Washington, D.C. in August 2022, Typical for the summer there, the temperatures were tropical, the humidity excruciating, and the mosquitos everywhere. That is how I learned D.C. is actually a part of “The South.”

I stayed at Virginia Tech, a technical university with a campus in the suburbs of the D.C. area. Although small and often compared to a prison or asylum, the campus had a certain charm. There were also many events for graduate students, with free food and ping-pong! It was a great way to meet other graduate students, of which most worked in engineering and computer science.

For four months, I was part of the Science and Technology Studies (STS) Department of Virginia Tech as a guest

Ph.D. student, hosted by Professor Sonja Schmid. My aim was to become more familiar with the STS field and to learn from Sonja Schmid, who has worked extensively on nuclear safety and contributes actively to nuclear policy in the U.S.

One of the aims of my stay was to take part in a project-based STS graduate course. This year, the theme was ‘Nuclear Facilities in Armed Conflict.’ Together with six other American STS students, with varying backgrounds ranging from nuclear engineering to law, we wrote a policy report with recommendations on how to prevent situations like the Zaporizhia nuclear power plant in Ukraine. We also presented our work in a public session for policy-makers, government officials, and industry experts. We are working on a policy publication right now.

Washington, D.C. has many archives that are relevant for nuclear historians like me. Although they are not always easy to get into, I came back with thousands of scans from the Library of Congress, the National



A photo from a street in Washington D.C. Photo: Siegfried Evens

Academy of Sciences, the National Archives, and – most importantly – the Nuclear Regulatory Commission (NRC) Public Documentation Room. At the NRC, I was helped a lot by the NRC historian, Professor Thomas Wellock.

Staying in D.C. was a great opportunity to travel around. I attended the Society of History of Technology (SHOT) conference in the stunning city of New Orleans. I presented my work in the college town of Blacksburg, where the main campus of Virginia Tech is located, and received great feedback from STS scholars. And in an act of ‘dark tourism’, I drove up to the Three Mile Island nuclear plant, which is only a two-hour drive away from D.C.

But after each trip, I was also happy to be back in D.C. It is a marvelous place to live.

Paradoxically, the capital of the U.S. has a very European feel: wide sidewalks, beautiful architecture, good public transport, lush parks, and so many great pubs and restaurants. I lived in Columbia Heights, a beautiful historic part of the city with small row houses built after the Civil War to house new civil servants.

Yet, at the same time, the abundance of museums, monuments, and sports stadiums – but at the same time also the stark racial social inequalities in the city – remind you of American history and culture every day. American politics is never far away either: when you talk to people, see politicians or “staffers” in the streets, or when walking on the National Mall and cannot get the intro tune of House of Cards out of your head.

# Generative friction in the environmental humanities

—NUNO DA SILVA MARQUES

As a researcher in ecopoetry at the Environmental Humanities Lab (EHL) I had several opportunities to explore ways in which poetry and the arts can contribute to environmental issues. The Division and the EHL are wonderful places to experiment and people are welcoming of new ideas. The Cross-Cuts Environmental Humanities film and poetry festival was one of those moments in which experimental art films engaging with deep sea mining by Portuguese Margarida Mendes and ecopoetry by North-American Evelyn Reilly and Peruvian Juan Carlos Galeano, impacted audiences and had a say about the role of imagination and narratives concerning climate change. The films and ecopoetry conveyed to the audience knowledges about the Azorean maritime area and its species, about Peruvian cosmologies and riverine communities and about poetic forms of transspecies collectives and activism. This is an important contribution of poetry to discussions about climate change

because it makes visible the “submerged knowledges” as researcher Macarena Gómez-Barris writes, which are knowledges produced within extractive zones of the Anthropocene and silenced or “submerged” by the narrative of the Anthropocene and practices of extractivism.

Another very rewarding moment at the Lab and the Division was the PhD course “Critiques and Practices of Sustainability: Environmental Humanities Perspectives on Chilean and Swedish Ecocultures of Water, Land, and Air”. I created and convened this course with Andrea Casals Hill, from the Facultad de Letras, Pontificia Universidad Católica de Chile; and Azucena Castro, Stockholm Resilience Center. This course combined ecocriticism, cultural studies, sustainability studies, and decolonial theories and practices. Importantly, it was a platform for discussing different perspectives on ideas of sustainability from Chile and Sweden and also across different fields: aesthetics, cultural studies, agricultural studies, STS,

engineering, biology and social science. Discussions during the sessions were guided by poetry, fiction, film, exhibitions and performance art, as well as by the IPCC report. The entire course was a moment of friction: between fields, working methods and expectations; between languages (English, Italian; Portuguese, Swedish, Spanish, to name a few); between histories of relation with environmentalism and extractivism, between the so-called Global North and Global South. Starting from these frictions, students worked on their own research, received and gave each other feedback; and could discuss their projects with invited researchers – a feedback that had a strong impact on their research. Their works ranged from studies on salmon farming in Chile to alternative urban designs in Sweden; from trying to translate research on energy in poetic terms to address the role of the arts in conveying issues on climate change.

But from this friction also came translation between languages, fields, cultures and practices; experimentation with different forms of looking into problems and trying to communicate them too. These are opportunities provided by the environmental humanities in its transdisciplinary that I take from being part of the EHL and the Division.

# How does on-property innovation in water and energy affect the sustainability of an entire city?

—DAVID NILSSON

Property owners in both urban and peri-urban areas in Sweden are increasingly installing local on-property technologies for water and energy, driven by environmental, regulatory and economic factors. Examples include heat recovery from wastewater, hot water recirculation from showers, or local water and sewerage grids. While this may be advantageous from the property owner point of view, local innovation activity also changes how the city-level systems for water and energy performs, creating unintended and negative effects on technical performance, economies and the environment. Understanding system effects from local socio-technical innovation is critical - but also necessary in order to find ways of taking coordinated approaches in urban regimes that exhibit a high degree of fragmentation, with poly-centric and multi-sectoral actor constellations.

In the project SEQWENS (2018-2022) our aim was to develop new knowledge that helps a transition toward an energy-efficient and

sustainable society, with a key focus on the interlinkages between urban water, heating and housing. The research has been truly inter- and trans-disciplinary, with historians and STS-scholars working together with modellers, energy specialists and system analysts from other departments at KTH, facilitated through the WaterCentre@KTH. Here, we combined actors and socio-technical studies through in-depth case studies of on-property installations in Stockholm and Gothenburg, with city-wide future scenarios developed with key city actors which were evaluated using a quantitative model based on machine learning (Artificial Neural Network). During the project, we collaborated with over 14 different companies or public organisations in water, energy, housing and real estate.

We found that property owners can meet over 20% of their energy needs for domestic hot water from wastewater heat recovery, yet property owners currently struggle to make economic profit from these installa-



tions. The performance of greywater recovery, on the other hand, is very high, with 82-91% recovery of water and 50-55% energy reduction. The payback time can be as low as between 2 to 5 years, but that building codes and regulation of water quality are main bottlenecks for scaling up. In the case of community-driven local grid development in Värmdö outside Stockholm, we have shown the importance of local entrepreneurial activity and the need to align local grids with overall system requirements.

A range of different socio-technical development paths up to 2050 were explored. Not surprisingly, the more conservative scenarios work in favour of large-scale actors while a more radical uptake of on-property heat recovery benefits the property owners. However, the radical scenarios lead to disruptive effects on a system level due to serious disturbance on wastewater treatment plants. At the same time, net energy savings are relatively modest while economic gains for property owners are uncertain. Current policies at EU and national level around energy-efficient buildings could thus become counter-productive if they push property owners to install wastewater heat recovery technology which, in places like Stockholm, can create suboptimal outcomes at the system level.

### Publications from this project

**Golzar, Farzin, David Nilsson and Viktoria Martin (2020)**

*Forecasting Wastewater Temperature Based on Artificial Neural Network (ANN) Technique and Monte Carlo Sensitivity Analysis. Sustainability, 12 (16).*

[doi.org/10.3390/su12166386](https://doi.org/10.3390/su12166386)

**Golzar, Farzin and Semida Silveira (2021)**

*Impact of wastewater heat recovery in buildings on the performance of centralized energy recovery – A case study of Stockholm. Applied Energy, 297.*

[doi.org/10.1016/j.apenergy.2021.117141](https://doi.org/10.1016/j.apenergy.2021.117141)

**Wallin, Jörgen (2021a)**

*Case studies of four installed wastewater heat recovery systems in Sweden. Case Studies in Thermal Engineering, 26.*

[doi.org/10.1016/j.csite.2021.101108](https://doi.org/10.1016/j.csite.2021.101108)

**Wallin, Jörgen, Jesper Knutsson and Timos Karpouzoglou (2021)**

*A multi-criteria analysis of building level graywater reuse for personal hygiene. Resources, conservation & Recycling Advances, 12.*

[doi.org/10.1016/j.rcradv.2021.200054](https://doi.org/10.1016/j.rcradv.2021.200054)

# Energy

—PER HÖGSELIUS

Year 2021 and, in particular, 2022 were busy for historians with an interest in energy. It is common – and fun – that energy-historical themes that at a first glance seem to concern developments deeply buried in the past often turn out to be highly contentious in current affairs. In 2022, this became more evident than ever. Early in the year, Russia's military assault on Ukraine led to a crisis in East-West energy relations on an unseen scale, leading many actors and analysts to ask how and why Western Europe historically had opted to make themselves so dependent on Russian coal, oil, gas and uranium. Put bluntly: Why had they been so stupid? As a result, historians were much sought-after as commentators. The war worsened an already looming crisis in European electricity and natural gas supply, leading to further historical questions about the European energy system, with its intricate transnational interlinkages and their often unpredictable evolution over time – issues that have been at focus in much of the Division's energy-historical research for the past twenty years.

The summer of 2022 became extraordinarily dry, making the European energy situation even more strained. An important contributing factor was that many nuclear reactors, especially in France, were either down for maintenance or had to be taken temporarily out of operation due to problems with their cooling water supply. This problem had a very direct relation to our ongoing European Research Council (ERC) project NUCLEARWATERS, which aims to rewrite the global history of nuclear energy through the lens of water. It was fascinating – and frightening – to see how the key historical themes in this project led to desperation among nuclear operators and suddenly made headlines in general media. I had hoped to spend some time in August and September reading about the ancient hydraulic civilizations of Mesopotamia and Egypt, which can be regarded as the oldest sources of inspiration for nuclear-hydraulic engineering projects. In reality, I found myself forced to put those books aside and, instead, keep up with the news reports on how Europe's rivers ran dry and how the



NUCLEARWATERS researchers during a visit to Olkiluoto Nuclear Power Plant in Finland. Photo: Anna Storm

French electricity company EDF desperately sought to acquire permission from regulatory agencies to release extraordinarily warm cooling waters back into the country's poor rivers.

In Sweden, the public debate about nuclear energy grew even fiercer when both the past and the future of the country's nuclear power plants became a major theme in the autumn's parliamentary election campaigns. Unexpectedly, a range of questions that were in essence of a historical nature

became central in political debates. Thus a major controversy erupted over the historical causes of the pre-mature shutdown of several Swedish nuclear reactors between 2016 and 2020. Several of the division's researchers here felt that they had to enter the debate by writing newspaper essays and op-eds or by speaking out in podcasts and interviews in general media. And at the time of writing no end is in sight when it comes to the seamless integration of energy history and current affairs.

# Challenging the Northern bias

—TIMOS KARPOUZOGLOU

In recent years we have witnessed an explosion in the use of the term 'green transition'. It has certainly become a buzzword mobilized frequently in the media, the portfolios of large industrial actors as well as public institutions to signal the need for deep transformation.

While it is true that a green transition will be necessary for countries to achieve the ambitious targets set out by the Sustainable Development Goals and to avoid catastrophic climate change. In practice, as critical scholars engaged with questions of technology in society, we often see that actions and discourses around the green transition can often still hide a Northern bias. That is that the Northern hemisphere has the superior knowledge and technological innovations that could easily be scaled up and lead the world to the transformation of societies required. Why is that so? What is it that makes certain views on technology still appealing even after knowing for some time now their limitations?

Crucially, we know that this Northern bias conceived and propagated in Western nations has historically created many problems in the Southern hemisphere. In many Southern cities for example, critical infra-

structures for water and energy provision have all too often been couched narrowly around ideas of modernity that presuppose singular solutions such as grid-based service provision and control of these services by a handful of actors and institutions. In the Northern hemisphere, the same kind of bias is now leading public debates on the green transition to a narrow definition of options and interventions. When it comes to energy, solutions are often juxtaposing one large technological mission (e.g. nuclear energy expansion) against another (e.g. large scale expansion of off shore wind). In water, discussions are usually about expansion of the same model (e.g. re-enforcing old sewer networks into even larger and presumed modern technical systems) without considering alternatives.

In the work that was carried out as part of the Formas WaterFlow project (2018-2022) as well as ongoing work conducted as part of the Riksbankens Jubileumsfond project NATURE, we have examined cases that repeatedly challenge the Northern bias and present alternative ways of imagining the green transition. This is often about understanding up-close the practices and innovations of a wider set of actors, accept-



At the entrance of the Technical University of Kenya during policy workshop on sustainable water provision, 9th December 2022.  
Photo: Timos Karpouzoglou.

ing heterogeneity as something which is good for the green transition of societies but also letting go of grand socio-technical imaginaries that overemphasize technological fixes. We have begun calling this alternative way of thinking as a ‘modest’ imaginary.

At KTH, technological innovation is central to a wide range of educational programmes and research projects. Hence even here at our university we have to seize more opportunities to start to challenge this Northern bias. KTH offers a range of platforms that can help catalyze this. For instance, with seed funding received during 2022 from KTH Sustainability Office, as part of the WaterFlow project, we hosted a policy and research workshop in Nairobi on the 8th of December 2022 on improving drinking water provision with participation of important water stakeholders. The workshop was used as a platform to provide recommendations for improving water services to the urban poor and for achieving sustainability. But more importantly, it offered a platform for dialogue with actors from the South and to think about problems in the North with Southern theories and vantage points.

As more and more attention is placed on

the green transition, we need to ensure that we are not repeating past mistakes. To do so, we need to think about the green transition in broad terms and with a focus on shifting our innovation pathways but also entrenched imaginaries of green transition. Our division, has played and will continue to have a critical role in catalyzing this thinking within KTH and for broadening perspectives on the green transition with particular emphasis on historical, societal and humanities perspectives.

### Publications from this project

Lawhon, M., Nsangi Nakyagaba, G., & Karpouzoglou, T. (2022)  
*Towards a modest imaginary? Sanitation in Kampala beyond the modern infrastructure ideal.*  
*Urban Studies*, 60(1), 146–165.  
[doi.org/10.1177/00420980211064519](https://doi.org/10.1177/00420980211064519)

# Backlists



Photo: Magnus Clans



## Guests

Every year we welcome several visiting scholars and other academic staff. Some come to teach in courses or in other ways collaborate with us, others come mainly to do their own research. One thing they all have in common is that they become an important part of the Division.

### **MELINA ANTONIA BUNS**

- postdoctoral researcher at the University of Stavanger, Norway. (December 2021 – December 2022)

### **ALIAKSANDR PIAHANAU**

- Wenner-Gren postdoc (April 2021 – April 2023)

### **HEDDA SUSANNE MOLLAND**

- PhD candidate in Cultural Studies at the University of Bergen (March to June 2022)

### **HANNAH KLAUBERT**

- bi-national PhD in Comparative Literary and Cultural Studies at the International Graduate Center for the Study of Culture (GCSC) at Justus-Liebig-Universität Giessen, Germany, and at the Department of English, Stockholm University. (March 2022)

### **VIRGINIA MAGNAGHI**

- PhD candidate in Art History at the Scuola Normale Superiore (Pisa, Italy). (March-June 2022)

### **TANJA RIEKKINEN**

- PhD candidate in History and a university teacher at the University of Oulu, Finland. (September 2022)

# Higher Seminars

All seminars on zoom

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## Spring 2021

**Reassembling the Environmental Archives of the Cold War: Perspectives from the Russian North**  
**22 February, 16.15-17.45**  
Dmitry Arzyutov  
Div. History of Science, Technology and Environment, KTH  
**Opponent:** Andy Bruno, University of Northern Illinois  
Final seminar in doctoral education.

**Nuclear Clay**  
**8 March, 13.15-14.45**  
Andrei Stsiapanau  
Vytautas Magnus University (Lithuania) and Linköping University.

**The mediated planet – Data and the realization of environmental SDGs**  
**22 March, 13.15 – 14.45**  
Adam Wickberg and Sabine Höhler  
Div. History of Science, Technology and Environment, KTH.

**Oil will set us free? On OPEC and the New International Economic Order**  
**19 April, 13.15-14.45**  
Marta Musso  
Div. History of Science, Technology and Environment, KTH.

**Ideas and politics of Indigenous labour and northern development in postwar Canada**  
**3 May, 16.15-17.45**  
Jean-Sébastien Boutet  
**Opponent:** Heather Green, St Mary's University  
Mid-seminar in doctoral education

**Nuclear Decision-making in the Soviet Union. Investigating Water in Expert Cultures Concerned with the Siting of Nuclear Power Plants**  
**17 May, 13.15-14.45**  
Achim Klüppelberg  
Div. History of Science, Technology and Environment, KTH  
**Opponent:** Stefan Guth, University of Tübingen  
Mid-seminar in doctoral education.

**Making Reindeer: Negotiating an animal in modern Swedish Sápmi 1920-2020**  
**2 June, 14.00**  
Corinna Röver  
Div. History of Science, Technology and Environment, KTH  
**Opponent:** Professor David Anderson, University of Aberdeen.  
KTH Dissertation defense.

**Reordering Nature: friluftsliv, women's emancipation and welfare planning in Sweden, 1920-1970s**  
**7 June, 13.15-14.45**  
Liubov Timonina  
Div. History of Science, Technology and Environment, KTH  
Presentation of PhD-PM.

**Streams, Steams, and Steels: A History of Nuclear and Non-Nuclear Risk Governance (1850-1990)**  
**14 June, 16.15-17.45**  
Siegfried Evens  
Div. History of Science, Technology and Environment, KTH  
**Opponent:** Aditi Verma, the Belfer Center for Science and International Affairs, Harvard University. Mid-seminar in doctoral education.



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## Fall 2021

### Reassembling the Environmental Archives of the Cold War. Perspectives from the Russian North

20 August, 16.00  
(CET, on zoom)

[Dmitry V. Arzyutov](#)

Div. History of Science, Technology and Environment  
Dissertation defense.

### Ragnar Holm Lecture: Education, Automation and AI – A Genealogy of Alternative Futures

6 September, 13.15-14.45 (CET)

[Lina Rahm](#)

Div. History of Science, Technology and Environment  
For more information see  
KTH-event link.

### The Nuclear Rhine

13 September, 13.15-14.45 (CET)

[Alicia Gutting](#)

Div. History of Science, Technology and Environment, KTH, Div. History of Science, Technology and Environment.

**Discussant:** Prof. Itay Fischhendler, Hebrew University, Jerusalem.  
Mid seminar in doctoral education.

### The observable revelation: circulation of fundamental concepts between theology and quantum physics in the 1930s

20 September, 13.15-14.45 (CET, on zoom)

[Karolina Källgren](#)

Stockholm University.

### What is Quality in the Humanities?

27 September, 13.15-14.45 (CET, on zoom)

[Klara Müller](#)

Div. History of Science, Technology and Environment.  
Presentation of dissertation-PM.

### Dirty coal: Industrial populism as purification in Poland's mining heartland

1 October, 15.00 (CET, on zoom)

[Irma Allen](#)

Div. History of Science, Technology and Environment  
Dissertation defense.

### Planetary Timekeeping: Paleoclimatology and the temporalities of environmental knowledge, 1945-1990

4 October, 13.15-14.45 (CET)

[Erik Isberg](#)

Div. History of Science, Technology and Environment  
Mid seminar in doctoral education.

### Humanoid ocean or an ocean of humanoids? – A history of datafication of the subsea environment

8 November, 13.15-14.45

[Tirza Meyer](#)

Div. History of Science, Technology and Environment.

### Where the wind blows – Tracing Global Environmental Governance in Local Energy Transitions (1970s to the present)

22 November, 13.15-14.45

[Thomas Harbøll Schrøder](#)

Div. History of Science, Technology and Environment.  
**Discussant:** Kristian Hvidtfelt Nielsen, Centre for Science Studies, Aarhus University.

Mid seminar in doctoral education.

### Archipelago lecture: Colonial Earths & the Inhumanities

1 December, 16.30 (CET)

[Kathryn Yusoff](#)

professor of Inhuman Geography at the Queen Mary University of London. For more information and access to lecture, see event Colonial Earths & the Inhumanities.

### Colonialism and Antarctic Animals

6 December, 13.15-14.45

[Peder Roberts](#) and [Kati Lindström](#)

Div. History of Science, Technology and Environment.

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## Spring 2022

### The Great Energy Supply Crisis: Fuels & Politics in Central Europe, 1918-1921

24 January, 13.15-14.45 CET

[Aliaksandr Piahanaŭ](#)

Wenner-Gren postdoc, Division of History of Science, Technology and Environment.

### Machine Learners as Enviroing Media

7 February 13.15-14.45 CET

[Erik Ljungberg](#)

doctoral student, Division of History of Science, Technology and Environment. PM for PhD project.

### Air Epistemologies: Practices of Eco-poetry in Ibero-American Atmospheres

21 February 13.15-14.45 CET

[Nuno Marques](#)

postdoc, Division of History of Science, Technology and Environment.

**From modern to modest imaginary? Learning about urban water infrastructure by comparing Northern and Southern cities**  
**14 March, 13.15-14.45 CET**

Timos Karpouzoglou  
researcher, Division of History of Science, Technology and Environment.

**Collaborators in this work:**

Mary Lawhon, Sumit Vij,  
Pär Blomqvist, David Nilsson,  
Katarina Larsen.

**Warriors, wizards, and seers: representations of Saami in 17th and 18th century Sweden**  
**21 March, 13.15-14.45 CET**

Vincent Roy-Di Piazza  
Oxford Centre for the History of Science, Medicine and Technology, University of Oxford, UK.

**Historian's toolbox: Technical solutions for doing research**  
**4 April, 13.15-14.45 CET**

Kati Lindström and  
Anja Moun Rieser  
Division of History of Science, technology and Environment.

**An Environmental History of the World Bank 1920-2020**  
**9 May, 13.15-14.45 CET**

Gloria Samosir  
doctoral student,  
Division of History of Science, Technology and Environment  
**Discussant:** Ann-Kristin Bergquist,  
Umeå University, Unit of Economic History. Mid-seminar in doctoral education.

**Nuclear Nordics: Histories of Radioactive Waste in the Nordic Region**  
**16 May, 13.15-14.45 CET**  
Melina Antonia Buns  
Visiting postdoc KTH.

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## Fall 2022

**Deep geothermal energy technology as petroculture?**

**A research design for the HARNES project**  
**12 September, 13:15-14:45**  
Andreas Roos  
Division of History of Science, Technology and Environment, KTH.

**How To Civilize an Ocean**  
**19 September, 14:15-15:45(CET)**  
Jessica Hurley  
Assistant Professor of English,  
George Mason University.

**The conceptualization of mistakes in the era of artificial intelligence, 1940–1990**  
**3 October, 14:15-15:45**  
Johan Fredrikzon  
Division of History of Science, Technology and Environment, KTH.

**Thinking Through Mineral Supply Chains: From Subterranean to Outer Spatial Geographies**  
**12 October, 13:15-14:45**  
Julie Michelle Klinger  
Assistant Professor of Geography,  
University of Delaware.

**A theoretical seminar on Heritage and Decay**  
**17 October, 13:15-14:45 (CET, on zoom)**

Lize-Marie Hansen van der Watt  
Division of History of Science, Technology and Environment, KTH.

**På spaningen efter vetenskapens självstyre – föreställningar och förhållningssätt i styrningen och organisationen av universitetsforskning**  
**31 October, 13:15-15:00**

Ulrika Bjarre  
Division of History of Science, Technology and Environment, KTH  
Slutseminarium i forskarutbildning  
**Diskussionsledare:** Eva Forsberg  
professor i pedagogik, Uppsala universitet.

**10th Archipelago lecture: The Less Selfish Gene: Forest Altruism Neoliberalism, and the Tree of Life**  
**November 11**

Rob Nixon  
Barron Family Professor in Environment and Humanities  
at Princeton University.

**Science, the arts and engineering - dialogues and co-creative methods between KTH and Färgfabriken**  
**5 December, 13:15-14:45**

Katarina Larsen, Timos Karpouzoglou & David Nilsson  
Division of History of Science, Technology and Environment,  
KTH and Åsa Cederqvist,  
Färgfabriken.

**Algorithmic Anomalies:  
The Practices and Politics of  
Othering in Artificial Intelligence**  
12 December, 13:15-14:45

Francis Lee

Associate professor Division of  
Science, Technology, & Society,  
Chalmers University of Technology.

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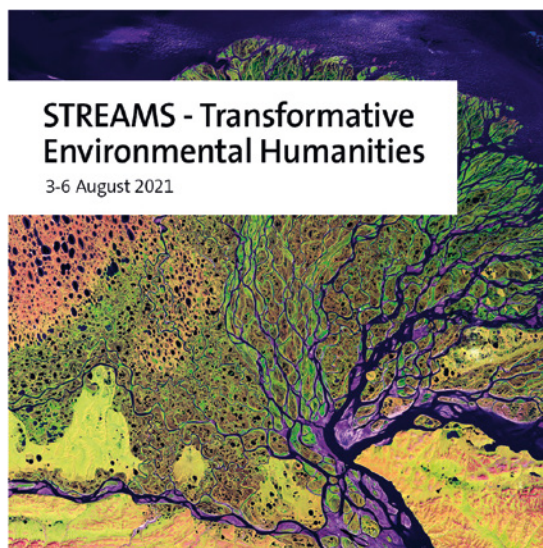
## Selected events 2021

### STREAMS 2021

**Description:** STREAMS was an international conference for the Environmental Humanities. We gathered researchers from a wide range of academic disciplines as well as artists, activists and practitioners to meet and discuss different subjects within the field of the environmental humanities. The conference was built up by keynotes, single presentations, network rooms, and different themed STREAMS. A stream offered a mix of roundtables, paper presentations, films, and/or other artistic events on subjects such as environmental justice, ecological knowledge, crisis and transformation in society, petrocultures, energy humanities, ocean governance, more-than-human arts, nuclear narratives, and much more.

**3 August, 09:00–**

**Friday 6 August, 19:30 (Online)**



Promotional poster for the STREAMS conference.

### **Symbiosis – a Collaboration between NATURE and Färgfabriken**

**August to November 2021**

**Organizers:** Katarina Larsen,  
Timos Karpouzoglou & David  
Nilsson from KTH together with  
Åsa Cederqvist and Färgfabriken,  
Stockholm

**Description:** Symbiosis is  
an ongoing experiment at  
Färgfabriken created together

with researchers, artists and  
architects to explore new ways  
of thinking about our world  
and the challenges facing  
humanity. The exhibition includes  
a program with seminars,  
workshops and performances,  
several in collaboration between  
Färgfabriken and the project's  
participants and partners.



Promotional poster for the 10th Stockholm Archipelago Lecture.

**Ragnar Holm Lecture: Education, Automation and AI – A Genealogy of Alternative Futures**

**6 September 13:15–14:45 (Zoom)**

Lina Rahm (Ragnar Holm Postdoc)

**Description:** Lina Rahm is the 2020 Ragnar Holm post-doctoral scholar, based at the Division of History of Science, Technology and Environment, ABE-school. She holds a Phd in education, focused on adult learning and liberal education on the overlap between educational and technological histories and futures.

**Climate challenges and the arts: urban time scales, inclusion and future flexibility @Färgfabriken November 2021**

**Description:** How can European cities prepare for climate challenges ahead? In what ways can co-creative processes between art, science and engineering contribute to novel solutions?

These are some questions discussed at the workshop organized in the context of the H2020 initiative “SOS Climate waterfront” aiming at exchange between European cities on urban climate challenges and crafting strategies for future actions.

**Organizers:** Katarina Larsen & Lina Suleiman, KTH.

**Archipelago Lecture: Colonial Earths & the Inhumanities**

**1 December, 16:30 (Zoom)**

Kathryn Yusoff

(Professor of Inhuman Geography in the School of Geography at Queen Mary, University of London)

**Description:** This talk starts with the simple recognition that colonialism (and its kin, climate change) is an ongoing process of breaking ground and broken earths. Colonialism instigated extractivism and the massive disruption of earthly matter

through epistemic detachment (or ‘White geology’) and its ontologies of rupture. These broken earths are an anticipatory and affective architecture of the ongoing sedimentations of colonialism that structure racial capitalism. By recognizing these colonial afterlives as forms of geotrauma—a trauma that is specifically concerned with the geos through displacement and desecration—it is possible to situate race within acts of desecration that require geographic re-description. Kathryn Yusoff argues that understanding the Environmental Humanities alongside its colonial twin—the Inhumanities—is crucial to remaking broken worlds.

**Docent lecture: How does our understanding of history influence which landscapes we choose to protect?**

**9 December 2021, 14:00 (Zoom)**

Kati Lindström

Division of History of Science, Technology and Environment, KTH

**Description:** How does our understanding of history influence which landscapes we choose to protect? To protect a cultural or natural landscape is an act of triage where some places, phenomena or species are selected for preservation whereas others are left to change or even disappear. Heritage and nature protection are considered an expert realm where scientists or heritage experts determine the value and urgency of protection of each phenomenon. However, attributing a value to a certain landscape is deeply dependent on how we understand the history of the region, what we consider authentic and where we draw historical and geographical boundaries of relevance. Far too often, these boundaries coincide with today's nation states and implicate a strong division into nature and culture. This may lead to an over- or underrepresentation of certain phenomena among the protected sites as they are seen important for the hegemonic cultural core. Frequently, it may also ignite conflicts where the experts' and laypersons' valuation of landscapes or species differs significantly. In this lecture, I will walk you through an array of examples from my research in Japan and elsewhere, where a certain view of history could be seen to have shaped today's heritage.

**The “Undisciplining (environmental) humanities, everywhere!” series**

The EHL has been Undisciplining the Environmental Humanities since 2011. But what do we and others mean when we use the expression? In 2021 we organized a seminar series to discuss this and to share experiences from our undisciplining practices around the world.

**27 October 2021  
Undisciplining Architectural Teaching through the Environmental Humanities with Pablo DeSoto.**

**11 May 2021  
Undisciplining (Environmental) Humanities: Guerilla Narrative and Toxic autobiographies with Marco Armiero.**

**14 May 2021  
Collective Reconstruction of the History of the Gulf of California, Mexico. Using Environmental History to Resignify and Protect the Territory with Micheline Cariño Olvera.**

**17 May 2021  
The Workers' University: Defending Social Care with Damir Arsenijevic.**

**25 May 2021  
Environmentalism from Below with Ashley Dawson.**

**2 June 2021  
Babilonia lives: Research, Reforestation, and Survival Strategies in Copacabana Favela with Lise Sedrez**

**2022**

**Occupy Climate Change!  
Online Winter School 2022  
21–22 January (Online)**

**Description:** The KTH Environmental Humanities Lab is arranging an online winter school in collaboration with several researchers in the Occupy Goes Global network. It will be a two-weekend interdisciplinary online winter school inviting early career researchers (master's students in their advanced thesis phase, Ph.D. students, and postdocs) to explore climate change and its consequences of loss and damage, for those interested in environmental justice, climate justice, environmental humanities, environmental history, media studies, political ecology, literature/ storytelling.

**Participating:** Marco Armiero (KTH Environmental Humanities Lab, Sweden & Istituto di Studi sul Mediterraneo (CNR-ISMed), Italy); Alessio Battistella (ARCO - Architecture and cooperation, Italy) Gilda Berruti, (Department of Architecture, University “Federico II” Napoli, Italy) Ashley Dawson (College of Staten Island, City University of New York) Robert Gioielli (University of Cincinnati, USA) Hanna Musiol (NTNU Environmental Humanities, Norwegian University of Science and Technology, Norway) Maria Federica Palestino (Department of Architecture, University “Federico II” Napoli, Italy) Elena Past (Department of Classical and Modern Languages, Literatures, and Cultures, Wayne State University, USA) Lise Sedrez (Instituto de História, Universidade Federal do Rio de Janeiro, Brazil) Bruno Venditto (Istituto di Studi sul Mediterraneo (CNR-ISMed) & Namibia University).

**Stockholm 1972 and the Rise of Global Environmental Governance**  
**26 June, 14:30–18:00 (Online)**

**Description:** Webinar convened by the RUCHE (France), the Environmental humanities lab at KTH (Stockholm) and the Luigi Einaudi Foundation (Torino).

**Participating:** Christophe Bonneuil (CRH, EHESS & RUCHE), Sverker Sörlin (Division of History of Science, Technology and Environment, KTH, Stockholm), Francesco Cassata (University of Genoa), Sabine Höhler (Division of History of Science, Technology and Environment, KTH, Stockholm), Eric Paglia (Division of History of Science, Technology and Environment, KTH, Stockholm), Gianluca Borzoni (University of Cagliari), Sara Lorenzini (University of Trento), Gloria Samosir (Division of History of Science, Technology and Environment, KTH, Stockholm), Federico Paolini

(University of Campania 'L. Vanvitelli').

**Crosscuts**

**1 September, 12:00–20:30**

**Description:** A one day event as the festival for film and text - Crosscuts - returns. This year we will give you an exciting program with themes on resource extraction, climate and the green movement.

**Films:** What is Deep Sea Mining?

**Panel:** Robert Blasiak, researcher, Stockholm Resilience Centre, Staffan Lindberg, journalist, Aftonbladet Krzysztof Jurdzinski, doctoral student, KTH. Moderator: Tirza Meyer, researcher, KTH How To Change The World Introduction and summary by Karl Andreasson from Greenpeace Poetry and Joik Session

**Guests:** Juan Carlos Galeano, professor, poet, translator, Ylva Gustafsson, Sami activist,

stage artist, public educator and Evelyn Reilly poet, scholar, environmentalist. Moderator: Nuno Marques, researcher, KTH Historjå - Stitches for Sápmi **Panel:** Tomas Colbengtson Sami visual artist, Ylva Gustafsson, Sami activist, stage artist, public educator, Thomas Jackson, director and Gunhild Ninis Rosqvist, professor, Stockholm University. **Moderator:** Liubov Timonina, doctoral student, KTH **Location:** Ångdomen, KTHB

**Stockholm Archipelago Lecture: The Less Selfish Gene: Forest Altruism, Neoliberalism, and the Tree of Life**

**10 November, 17:00–18:30 (Zoom)**

**Description:** Why have millions of readers and viewers become magnetized by the hitherto arcane field of plant communication? Since the great recession of 2008, we have witnessed an upsurge



Promotional poster for the Cross Cuts festival for film and text.

in public science writing that has popularized research into forest sentience, forest suffering and the forest as collective intelligence. Welcome to attend the 11th Archipelago lecture at the EHL. The lecture consists of a key note talk followed by a Q&A session, where the audience will get a chance to ask questions to Rob Nixon.

**Participating:** Rob Nixon (the Barron Family Professor in Environment and Humanities at Princeton University)

**“Without a title” – Nina Wormbs’  
Inaugural Lecture as Professor  
of History of Technology**

**24 November, 14:00–15:00**

**Description:** The Division of History of Science, Technology and Environment is extremely proud to present our colleague Nina Wormbs who became a Professor of History of Technology. Nina’s lecture is titled “Without a title”. It may speak to Nina’s specialization, the history of information infrastructure, but no promises are made other than that this will be interesting.

**Participating:** Nina Wormbs (Division of History of Science, Technology and Environment, KTH)

**Location:** V3, Teknikringen 72, floor 5.

**The NUCLEARWATERS  
seminar series**

NUCLEARWATERS is a 5-year research project funded by the European Research Council (ERC), based at KTH Royal Institute of Technology in Stockholm and led by Professor Per Högselius. During the spring of 2022 the project members organized a seminar series with specially invited guests, who discussed topics linked to the NUCLEARWATERS research.

**22 February 2022**

**Nuclear Nordics**

**Participating:** Melina Antonia Buns (visiting postdoc at Division of History of Science, Technology and Environment, KTH, Stockholm).

**18 February 2022**

**The Nuclear Waters of Russia’s  
Pryargunsky Uranium Mine.  
Film, Commentary and  
Discussion**

**Participating:** Dima Litvinov (Greenpeace campaigner).

**8 April 2022**

**Ecological entanglements,  
nuclear ruptures, and the  
affective intimacies of Bishnoi  
resistance**

**Participating:** Sonali Huria (associated scholar, Science, Technology and Gender Studies, FAU, Erlangen-Nürnberg).

**The Mediated Planet presents  
NordAI Spring seminar series  
2022: AI and Environment**

The 2022 NordAI spring seminars on AI and environment is curated by Adam Wickberg and Tirza Meyer from the Mediated Planet Research Group at KTH. The series feature contributions from leading scholars working with AI at the interface between the human and non-human world, exploring the question of what constitutes the environment through the lens of artificial intelligence.

**1 February 2022**

**AI and analysis of environ-  
mental data: a perspective  
from the Swedish defence  
researchers?**

**Participating:** Christer Andersson, analyst at the Swedish Defence Research Agency, Sweden.

**29 March 2022**

**The Digital Animal and Con-  
servation by Algorithm**

**Participating:** Bill Adams, Emeritus Moran Professor of Conservation and Development and Emeritus Fellow of Downing College.

**5 May**

**Smart forests**

**Participating:** Jennifer Gabrys, Chair in Media, Culture and Environment in the Department of Sociology at the University of Cambridge.

# Commissions of Trust

## Prizes and Awards

### **MARCO ARMIERO**

- The Mediterranean Culture Award for the book *Wastocene 2022*
- President, European Society for Environmental History, 2019-2021

### **SIEGFRIED EVENS**

- Chairperson of the ABE PhD Student Council, from 2020
- Member of the ABE School Executive Group

### **ERIK ISBERG**

- PAD / Member of the ABE PhD Student Council, 2020–2022
- PhD student representative in the ABE School Assembly, 2020–2022

### **PER HÖGSELIUS**

- Natur & Kultur's scholarship for popular science, 2022
- Member of the Faculty Assembly (Skolkollegium), School for Architecture and Built Environment, KTH Royal Institute of Technology, 2020–2021.
- Member of the evaluation committee for research applications to the Swedish Energy Agency's "Humans, energy systems and society" programme, since 2018
- Member of the advisory board for the NTM Journal of the History of Science, Technology and Medicine

### **JASMIN HÖGLUND HELLGREN**

- Education Manager / Board Member of the THS PhD Chapter, 2020 - 2021

### **SABINE HÖHLER**

- Elected member of SNTV Svenska Nationalkommittén för Teknik- och Vetenskapshistoria (Swedish National Committee for the History of Technology and Science), 2017-2020, 2020-2023

- Advisory Board member, research project "Corridor Talk: Conservation Humanities and the Future of Europe's National Parks", German Research Council DFG and UK's Arts and Humanities Research Council AHRC), University of Leeds/Rachel Carson Center for Environment and Society Munich, 2020-2023
- Editorial Board member, journal *Technikgeschichte*, Nomos 2020-2026
- Society for the History of Technology (SHOT), Kranzberg Dissertation Prize Committee, 2019-2021
- Advisory Board member, research project "Mapping the Oceans"/BMBF-Verbundvorhaben "Karten – Meere. Für eine Geschichte der Globalisierung vom Wasser aus", Gotha Research Centre, University of Erfurt, 2018-2021

### **TIMOS KARPOUZOGLOU**

- Steering board member of the Värmdö-KTH Partnership on research innovation and sustainable development in the Swedish archipelago, since 2022
- Advisory board member, Stockholm Environment Institute (SEI) initiative on Gridless Solutions, since 2022
- Advisory board member, Stockholm Environment Institute (SEI) research project on understanding policy gaps and research needs at the sanitation-climate change nexus, since 2022
- Advisory board member, Svenskt Vatten and EcoLoop research project on 'Strategies for behaviour change and water saving', 2020-2021

### **KATI LINDSTRÖM**

- Member of the Polar Research Committee of the Estonian Academy of Sciences, 2021
- Expert member of the ICOMOS International Polar Heritage Committee, working on the History of Antarctic Heritage Work Group, since 2020
- Member of the Faculty Assembly (Skolkollegium), School for Architecture and Built Environment, KTH Royal Institute of Technology, since 202



- Coordinator and founder for the informal network of Baltic Environmental Humanities and Social Sciences (BALTEHUMS), since 2018
- Board member of the Estonian Centre for Environmental History (University of Tallinn), since 2011
- Regional Representative for the Baltic States and Board member for the European Society for Environmental History, 2017–2021
- Summer school committee member, European Society for Environmental History, 2019–2021

#### **DAVID NILSSON**

- Deputy Head, School of Architecture and Built Environment, KTH, and Head of Communication and Collaboration, since 2022
- Board Member, Kristineberg Marine Research and Innovation Centre, Sweden, since 2022
- Board Member, Viable Seas national research arena for marine sciences, since 2022
- Board Member, KTH research platforms steering group, since 2022
- Member in Advisory Board, Coeli Asset Management, for the Sustainability and Impact fund Circulus, since 2022
- Board Member, Water Aid Sweden, since 2021

#### **PEDER ROBERTS**

- Prize committee, Northern Canadian History, for Canadian Historical Association, 2020-2022

#### **GLORIA SAMOSIR**

- Chairperson of the THS PhD Chapter, 2020-2021

#### **SVERKER SÖRLIN**

- Honorary Doctor, dr h.c., The University of Bergen, 2022
- Great Gold Medal, awarded by the Royal Swedish Academy of Engineering Sciences (IVA), 2021
- Thuréus Prize, awarded by the The Royal Society of Sciences, Uppsala University, 2021
- The Gerard Bonnier Literary Fellowship, member of award committee, since 2004
- Centre for Environmental Humanities, ANU Canberra, Australia, member of international advisory board, since 2010
- Steering Committee and executive Board member of the global IHOPE project, IGBP/Future Earth, since 2011
- Folkuniversitetet (People's university), president of the national board, since 2012

- Swedish Climate Policy Council, appointed by the Swedish Government, 2018 – June 2022
- Swedish International Development Agency, Sida, board member, since 2020
- Austrian Research Council (FWF), member of international science advisory board, since 2019
- Riksbankens Jubileumsfond (funder of Humanities & Social sciences), board member, since 2020
- Swedish Collegium for Advanced Study in the Social Sciences (SCAS), Uppsala, Long Term Fellow, 2020-2023
- Nordic Institute for Studies in Research, Higher Education and Innovation, NIFU (Oslo), long-term professorial fellow, since 2014
- *Cultural Geographies* (Sage), editorial advisory board, since 2000
- *Environmental Humanities*, Routledge book series (London, NYC), editorial advisory board, since 2013
- *The Anthropocene Review* (Sage), editorial advisory board, since 2014
- *International Journal of Environmental Humanities* (Duke Univ. Press), editorial advisory board, since 2015
- *AMBIO: Journal of the Environment*, editorial advisory board, since 2016
- *Environment and Planning E: Nature and Space* (Sage), editorial advisory board, since 2017

#### **DANIELE VALISENA**

- ESEH Dissertation Prize 2021 for the thesis "Coal Lives: Italians and the Metabolism of Coal in Wallonia, Belgium, 1945-1980 (2020)"

#### **NIINA WORMBS**

- Natur & Kultur's Scholarship for Popular Science, 2021
- Board of the Royal Swedish Academy of Engineering Sciences (IVA), since 2022
- KTH Faculty Council, member, 2019-2021
- Steering Committee, Swedish Authority for Accessible Media, since 2016
- Steering Committee, National Library of Sweden, since 2019
- Advisory Committee, Centre for History of Science, Royal Swedish Academy of Sciences, since 2017
- Board of Ridderstad Foundation for Media History, since 2011
- Jury Lars Salvius foundation 2020-2024

# Research Projects 2021-2022

With historical research as the core, research projects at our division span a number of thematic areas, such as history of science, technology and energy, environmental humanities & history and many more. A unique aspect of our research is that we receive a very high level of external project funding from competitive funding sources in Sweden and in Europe. These external funding sources have allowed us to maintain our diversity but also have helped us grow and broaden our research and societal impact.

For a full list of our thematic areas and project descriptions you can visit: [www.kth.se/philhist/historia/forskning](http://www.kth.se/philhist/historia/forskning)

**The Atlas of the other worlds. Discovering the multifold community experiences resisting to climate change**  
Project leader: Marco Armiero  
Period: 2022-2023  
Funding: Climate Action Centre KTH

**Occupy Climate Change (OCC!)**  
Project leader: Marco Armiero  
Period: 2018-2021  
Funding: Formas

**In a world of total war**  
Project leader: Dag Avango  
Period: 2016-2021  
Funding: The Arctic University of Norway (UiT)

**Universities as societal pillars?**  
Project leader: Mats Benner, Lunds University  
Period: 2015-2021  
Funding: Vinnova

**Beyond “unprepared”: Towards an integrative expertise of drought**  
Project leader: Fredrik Bertilsson  
Duration: 2022-2025  
Funding agency: Formas

**Humanistic knowledge in Swedish defence research: Human Sciences at FOAS**  
Project leader: Fredrik Bertilsson  
Period: 2018-2022  
Funding: The Swedish foundation for humanities and social sciences, Riksbankens Jubileumsfond

**Clinical Breeding**  
Project leader: Karl Bruno  
Period: 2018-2022  
Funding: Swedish Research Council (VR)

**Cold War Coasts**  
Project leader: Per Högselius  
Period: 2018-2022  
Funding: Formas

**Life on Mars**  
Project leader: Sabine Höhler  
Period: 2018-2021  
Funding: RJ/The Swedish Foundation for Humanities and Social Sciences

**The Mediated Planet: Claiming Data for Environmental SDGs**  
Project leader: Sabine Höhler  
Period: 2020-2024  
Funding Agency: Formas

**Examining Nature-Society Relations Through Urban Infrastructure (NATURE)**  
Project leader: Timos Karpouzoglou  
Period: 2019-2023  
Funding: Riksbankens Jubileumsfond

**Making the water flow: Conflict(s) and cooperation between formal and informal urban water regimes in Asia and Africa**  
Project leader: Timos Karpouzoglou  
Period: 2019-2022  
Funding: Formas

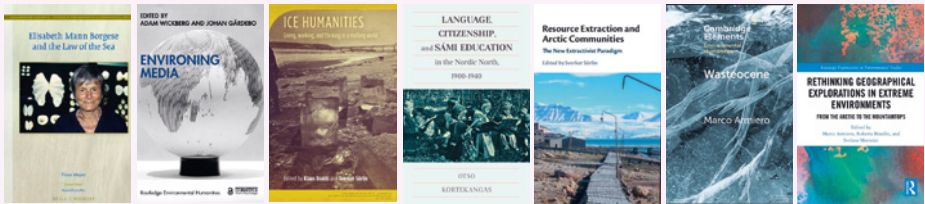
**Ahead of “indigenous”. The Sámi in Nordic scholarly thought 1930–1960**  
Project leader: Otso Kortekangas  
Period: 2019-2022  
Funding: Swedish Research Council (VR)

**Ecosystem for Sustainable Fishing Navigation in the Municipality of Guapi, Cauca****Project leader:** Katarina Larsen**Period:** 2022-2023**Funding:** SIDA**Open Water****Project leader:** Katarina Larsen**Period:** 2018-2022**Funding:** Vinnova**SOS Climate waterfront****Project leader:** Katarina Larsen**Period:** 2019-2023**Funding:** MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)**Climate change utopia and dystopia narratives - co-creation in the science-art-engineering nexus****Project leader:** Katarina Larsen**Period:** 2022-2023**Funding:** Climate Action Centre KTH**Sustainable communities and heritage politics beyond nature-culture divide****Project leader:** Kati Lindström**Period:** 2018-2022**Funding:** Formas**SEQWENS: Ensuring sustainability and equality of water and energy systems during actor-driven disruptive innovation****Project leader:** David Nilsson**Period:** 2018-2021**Funding:** Formas**Sustainability's Formative Moment: The Birth of the Boundaries Narrative and the Rise of the 'Human Environment'****Project leader:** Eric Paglia**Period:** 2022-2025**Funding Agency:** Formas**Greening the Poles: Science, the Environment, and the Creation of the Modern Arctic and Antarctic (GRETPOl)****Project leader:** Peder Roberts**Period:** 2017-2022**Funding:** European Research Council (ERC)**Movement Heritage****Project leader:** Sverker Sörlin**Period:** 2017-2021**Funding:** The Swedish National Heritage Board**Resource Extraction and Sustainable Arctic Communities (REXSAC)****Project leader:** Sverker Sörlin**Period:** 2016-2021**Funding:** Nordforsk**Study of the Planetary Human-Environment Relationship (SPHERE): The Rise of Global Environmental Governance****Project leader:** Sverker Sörlin**Period:** 2018-2024**Funding:** European Research Council (ERC)**Towards Sustainable Sport and Outdoor Recreation (Sport and Outdoor MISTRA – SPOOR)****Responsible researcher at the Division:** Sverker Sörlin**Duration:** 2020-2024**Funding agency:** MISTRA**On Creating Cultural Heritage in Antarctica****Project leader:** Lize-Marié

van der Watt

**Period:** 2017-2021**Funding:** Swedish Research Council (VR)**Plus Ultra: Media and Environment in the Spanish Colonial Empire 1570-1620****Project leader:** Adam Wickberg**Period:** 2017-2020**Funding:** Swedish Research Council (VR)**Initiative to Support, Promote and Integrate Researchers @Risk in Europe (InSPIREurope)****Project leader:** Nina Wormbs**Period:** 2018-2023**Funding:** Horizon 2020/European Commission**Inventing a Shared Science Diplomacy for Europe (InsSciDE)****Project leader:** Nina Wormbs**Period:** 2017-2022**Funding:** Horizon 2020**Understanding justification of climate change nonaction****Project leader:** Nina Wormbs**Period:** 2019-2021**Funding:** The Swedish foundation for humanities and social sciences, Riksbankens Jubileumsfond**Checking-in with Deep Time Clocks – re-configuring intergenerational justice and hope****Project leader:** Cecilia Åsberg**Period:** 2019-2021**Funding:** Formas

# All publications 2021–2022



Publication front page of books authored by scholars at the division, 2021-2022.

**Allen, I. (2021)**

*Dirty coal: Industrial populism as purification in Poland's mining heartland.* PhD dissertation, Stockholm, KTH Royal Institute of Technology.

**Almevik, G., Avango, D., Contissa, V., et al. (2021)**

*Built cultural heritage in Antarctica: Remains and uses of the Swedish South-Polar Expedition 1901-1903.* Report from the expert and research expedition CHAQ2020. Stockholm: Riksantikvarieämbetet.

**Anker, P. and Sörlin, S. (2022)**

*Ukichiro Nakaya's Sense of Snow, Letters Sent from Heaven: Frozen and Vaporized Water: Ukichiro Nakaya and Fujiko Nakaya's Science and Art.* Oslo: OK BOOK, pp. 125–132.

**Armiero, M. (2021)**

*Wastocene: Stories from the Global Dump.* Cambridge: Cambridge University Press.

**Armiero, M. (2022)**

*From waste to climate,* Social Text, vol. 40, issue. 1, pp. 69–89.

**Armiero, M. and De Rosa, S. P. (2022)**

*Climate Insurgency between Academia and Activism: An Interview with David N. Pellow,* Social Text, vol. 40: 157–164.

**Armiero, M., Biasillo, R. and Graf von Hardenberg, W. (2022)**

*Mussolini's Nature: An environmental History of Italian Fascism.* Cambridge, MA: MIT Press.

**Armiero, M., Biasillo, R. and Morosini, S., eds. (2022)**

*Rethinking Geographical Explorations in Extreme Environments: From the Arctic to the Mountaintops.* Routledge.

**Armiero, M., Dawson, A., Biasillo, R. and Turham, E. (2022)**

*Urban Climate Insurgency: An Introduction,* Social Text, vol. 40: 1–20.

**Armiero, M., Palestino, M. F., Berruti, G., et al. (2021)**

*Occupy Climate Change città dopo città,* Trame: Pratiche e saperi per una ecologia politica situata. Napoli: Tamu, pp. 91–112.

**Arzyutov, D. V. (2021)**

*Reassembling the Environmental Archives of the Cold War: Perspectives from the Russian North.* PhD dissertation, Stockholm, KTH Royal Institute of Technology.

**Arzyutov, D. V. (2022)**

*Reading Traces and Writing Indigenous Ethnohistories in the Russian North,* Histories of Anthropology Annual. University of Nebraska Press, vol. 16.

**Arzyutov, D. V. and Anderson, D. G. (2021)**

*Whole Parts: Transnational Life Histories of the Archives of Sergei and Elizabeth Shirokogoroff.* Peter the Great Museum of Anthropology and Ethnography of the Russian Academy of Sciences (The Kunstkamera), Antropologicheskij forum [Forum for Anthropology and Culture] 17: 175–198.

**Arzyutov, D. V., Anderson, D. and Podrezova, S., eds. (2021)**

*Puteshestviia cherez sibirskuiu step i taigu k antropologicheskim kontseptsiiam: etnoistoriia Sergeia i Elizavety Shirokogorovykh* [Journeys through the Siberian Steppes and Taiga to Anthropological Concepts: The Ethno-history of Sergei and Elizabeth Shirokogoroff], in two volumes, volume 1. Moscow: Indrik.

**Åsberg, C. (2021)**

*Doing and undoing the humanities in times of uncertainty: Practices of feminist posthumanities*, UNESCO World Humanities Report: EURO. Göttingen/Utrecht: UNESCO, pp. 1–7.

**Åsberg, C. (2021)**

*Ecologies and Technologies of Feminist Posthumanities*, Women's Studies, vol. 50: 857–862.

**Åsberg, C. (2021)**

*Environmental violence and postnatural oceans: Low trophic theory in the registers of feminist posthumanities, Gender, Violence and Affect: Interpersonal, Institutional and Ideological Practices.* London: Palgrave Macmillan, pp. 265–285.

**Bacchi, C., Kiesewetter, S., Rahm, L. and Tangnäs, J. (2022)**

*Commentary: Sociotechnical imaginaries and WPR: Exploring connections*, blog post.

**Benner, M. and Sörlin, S. (2022)**

*Forskning och utbildning – forskaridentiteten är den som vunnit*, Forskningspolitikk. Oslo: NIFU Nordisk institutt for studier av innovasjon, forskning og utdanning, vol. 45: 34–35.

**Benner, M. and Sörlin, S. (2022)**

*Organisationen för statlig forskningsfinansiering i Sverige ska ses över*, Forskningspolitikk, Oslo 45: 22–23.

**Bertilsson, F. (2021)**

*Från få till folk: Införandet av en empiriskt bestämd människosyn i den svenska civilförsvarsplaneringen*, Humanvetenskapernas verkningar: Kunskap, samverkan, genomslag. Stockholm: Dialogos Förlag, pp. 120–144.

**Bertilsson, F. (2021)**

*Integrative Humanities Crisis Research*, Biennial Report 2019 – 2020 Integrative Humanities. Division of History of Science, Technology, and Environment. Stockholm: KTH Royal Institute of Technology, pp. 69–71.

**Bertilsson, F. (2021)**

*Politics, industry, and tourism: The conceptual construction of the Blue Highway*, Journal of Transport History, vol. 42: 277–298.

**Bertilsson, F. (2021)**

*Source Criticism as a Technology of Government in the Swedish Psychological Defence: The Impact of Humanistic Knowledge on Contemporary Security Policy*, Humanities, vol. 10: 13.

**Bertilsson, F. (2021)**

*The Swedish Defence Research Establishment (FOA) and the influence of historical knowledge on Swedish civil resistance policy*, Scandinavian Journal of History, vol. 46: 550–569.

**Bertilsson, F. (2022)**

*Biopolitisk beredskap: Den beteendevetenskapliga försvarsforskningens betydelse i den svenska krisberedskapen*, Historisk Tidskrift, vol. 142: 29–50.

**Bertilsson, F. (2022)**

*Borderline: Culture, History, Language, and Beliefs in Swedish Defense Research*, The Humanities and the Modern Politics of Knowledge: The Impact and Organization of the Humanities in Sweden, 1850–2020. Amsterdam: Amsterdam University Press, pp. 231–252.

**Bertilsson, F. (2022)**

*Dialogos: Den radioaktiva vetenskapen: Beredskapen mot kärnvapen och engagemanget för miljön i Sverige*, Lychnos: Årsbok för idé- och lärdomshistoria, pp. 11–29.

**Bertilsson, F. (2022)**

*Drought or low water availability as an historical preparedness problem*. WaterBlog@KTH: Reflect, Rethink, Refill, 21 March.

**Bertilsson, F. (2022)**

*Humanistisk torka: Nya beredskapsproblem och humanioras betydelse*. Humtank perspektiv, November 4.

**Bhattacharya, P., Kumar, M., Islam, M. T., et al. (2021)**

*Prevalence of SARS-CoV-2 in Communities Through Wastewater Surveillance—a Potential Approach for Estimation of Disease Burden*, Current Pollution Reports, vol. 7: 160–166.

**Biasillo, R., de Majo, C. and Valisena, D. (2021)**

*Environmental History of Migration (EHM): its roots and most recent developments. An interview with Marco Armiero*, *Modern Italy*, vol. 26: 217–222.

**Biasillo, R., de Majo, C. and Valisena, D. (2021)**

*Environments of Italianness: For an environmental history of Italian migrations: Introduction*, *Modern Italy*, vol. 26: 119–124.

**Bjare, U., Sörlin, S. and Wormbs, N., et al. (2021)**

*Fel av utredningen att främst fokusera på kommersialisering*, *Universitetsläraren*, vol. 2021(1), pp. 40–41.

**Bruno, K. (2021)**

*Human animality: Our animals in medicine and society past and present*, *Historisk tidskrift*, vol. 141(2), pp. 354–357.

**Bruno, K. (2021b)**

Recension av Motzi Eklöf (red.), *Humanimalt: Oss djur emellan i medicin och samhälle förr och nu* (Malmköping: Exempla 2020), *Historisk tidskrift*, vol. 141(2), pp. 342–345.

**Dodds, K. and Sörlin, S., eds. (2022)**

*Ice Humanities: Living, Thinking and Working in a Melting World*. Manchester: Manchester University Press.

**Durham Peters, J. and Wickberg, A. (2022)**

*Media: The Case of Spain and New Spain*, *Critical Inquiry*, vol. 48(4): 676–696.  
[www.journals.uchicago.edu/toc/ci/2022/48/4](http://www.journals.uchicago.edu/toc/ci/2022/48/4)

**Eichhorn, A., Breitholtz, M., Domcke, V., Sörlin, S., et al. (2022)**

*Towards Climate Sustainability of the Academic System in Europe and Beyond*. Berlin: Alliance of European Academies (ALLEA).

**Ekström, A. and Sörlin, S. (2022)**

*The integrative humanities – and the third research policy regime*, *Smart Policies for Societies in Transition: The Innovation Challenge of Inclusion, Resilience and Sustainability*. Cheltenham & Northampton, MA: Edward Elgar Publishing, pp. 189–212.

**Eriksson, E., Wolrath Söderberg, M. and Wormbs, N. (2022)**

*Exceptionalism and Evasion: How Scholars Reason About Air Travel*, *Academic Flying and the Means of Communication*. London: Palgrave Macmillan, pp. 159–183.

**Ernstson, H. and Nilsson, D. (2022)**

*Towards situated histories of heterogeneous infrastructures: Oral history as method and meaning*, *Geoforum*, vol. 134: 48–58.

**Evens, S. (2021)**

*The Seeds of a European Risk Society: Marcinelle and The European Coal and Steel Community*, *European Review of History*, vol., 28:3. pp. 398–421

**Evens, S. (2022)**

Review of: Lotte Jensen (ed.) *Crisis en Catastrofe: De Nederlandse omgang met rampen in de lange negentiende eeuw*, vol. 137, pp. 1–3.  
[doi.org/10.51769/bmg-nlchr.11683](https://doi.org/10.51769/bmg-nlchr.11683)

**Evens, S. (2022)**

*Les risques de refroidissement: L'eau comme frontière spatiale et temporelle de l'énergie nucléaire*, *Enquêteur dans le nucléaire*. Rennes: Presses Universitaires de Rennes.

**Fahlén, Å. and Sörlin, S. (2021)**

*Trettio år gamla skolreformer måste kunna omprövas*, *Dagens Nyheter*, January 4.

**Frame, B., Liggett, D., Lindström, K., Roura, R. and van der Watt, L.-M. (2022)**

*Tourism and heritage in Antarctica: Exploring cultural, natural and subliminal experiences*, *Polar Geography* issue 45:1, 37–57.

**Fredman, P., Sandell, K., Stenseke, M. and Sörlin, S. (2021)**

*Pandemin har visat att vi behöver stärka friluftslivet*, *Dagens Nyheter*, June 27.

**Fredrikzon, J. (2021)**

*The Making of Human Error in the Era of Artificial Intelligence, 1940–1990*. Paper presented at the Histories of AI: A Genealogy of Power – Sawyer Seminar Winter Symposium at Cambridge University, December 14–15.

**Fredrikzon, J. (2022)**

*Environment, Privacy, History – Formation of the Data Landscape*. Paper presented at the Anniversary Symposium for the Media History Publication Series [Mediehistoriskt arkiv], held at the National Library of Sweden, June 16, 2022.

**Fredrikzon, J. (2022)**

*Error in the Era of Artificial Intelligence*, Paper presented at The Berkeley Film & Media Seminar, UC Berkeley, December 8, 2022.

**Fredrikzon, J. (2022)**

*Strålningsdöden: Hur vi lärde oss att leva med radioaktivitet i kroppen, i marken och över tid*, *Dödens idéhistoria*. Stockholm: Appell förlag, pp. 261–290.

**Gerhardt, K., Armiero, M., Sörlin, S., Wickberg, A., Wormbs, N., et al (2022)**

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