

**Division of History of Science,
Technology and Environment**
Report 2012-2014

If not indicated differently, pictures are taken by
co-workers at the Division.

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

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INTRODUCTION

FOR A NUMBER of years the Division of History of Science and Technology, KTH issued an annual report listing our publications and conference participation, seminars and visits as well as teaching and PhD training. These reports have proven valuable for many reasons, not the least as both personal and institutional reference over time. We can now look at these documents and compare, see patterns and remember. In this report, we have tried to take a step further, including some discussion and reflection.

THE LAST FEW years have been transformative in many ways and the Division has grown in scale and in scope. In 2011 the name was changed to the Division of History of Science, Technology and Environment and we have doubled the turnover since 2005. We are in the middle of our second strategy and it is valuable to try and both summarize and look forward in a more concerted way. The report at hand therefore covers the years 2012-2014, but also makes references back in time as well as towards the future. It functions not only as a catalogue of achievements but also as an opportunity to reflect on what we have done and how we can continue doing research, teach and interact with society in a way that ensures not only high quality but which is also sustainable. Growing is great in many ways, but to also keep the things we value is a challenge.

A FEW THINGS should be noted. During this period Martin Emanuel, Ingemar Pettersson and Anna Åberg defended their theses for the doctoral degree and Petra Bauer and Carlos Viktorsson defended theirs for the licentiate degree. Per Högselius was promoted to associate professor and Sabine Höhler became Docent at KTH. Marco Armiero was hired as director for the KTH Environmental Humanities Laboratory and Miyase Christensen appointed Guest Professor in Media and Communication Studies. You can read more about them and other things in the following pages.

I WOULD LIKE to thank all coworkers for their respective contributions to this text, and most of all I want to stress the work done by Susanna Lidström. It has been an interesting and learning experience to try and put this together and I hope you will find it worthwhile reading.

STOCKHOLM AUGUST 1ST 2015

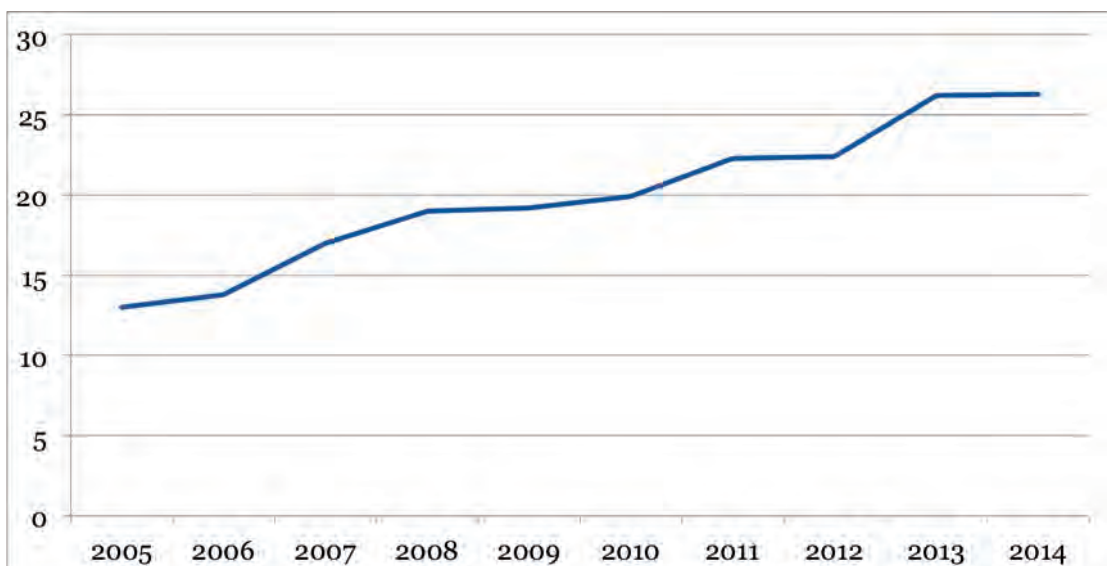
Nina Wormbs
Head of Division

BRIEF BACKGROUND

THE DIVISION OF History at KTH Royal Institute of Technology is an environment combining core disciplines in the history of science, technology and environment with key elements from media history, industrial archeology, STS, and innovation studies. Material, spatial, and politically relevant dimensions of history are salient, recently underscored by a new effort in the environmental humanities. The publication pattern covers the full spectrum of academic output from books on university presses and articles in high impact journals to policy reports, op ed articles, and essay articles in large daily newspapers. We have a PhD programme in History of Science, Technology and Environment, with 10-15 active students, and we give undergraduate courses to engineering students, albeit on a limited scale.

SINCE THE FIRM establishment of the Division with a chair in history of technology in the late 1980s and a PhD programme in the early 1990s, our workplace has undergone substantial change. In the mid 1990s there were two full professors, one associate professor and twelve PhD students. In 2014 we had two full professors, three associate professors, one assistant professor, two guest professors, four post-docs, eight researchers and nine PhD students. Early on there was a focus on history of science and technology with infrastructures and industrial heritage research as important areas of study. With new recruitments and new research projects we have expanded also in scope and are able to combine our existing competences in even more ways.

IN THE SPRING of 2012 KTH Royal Institute of Technology conducted its second

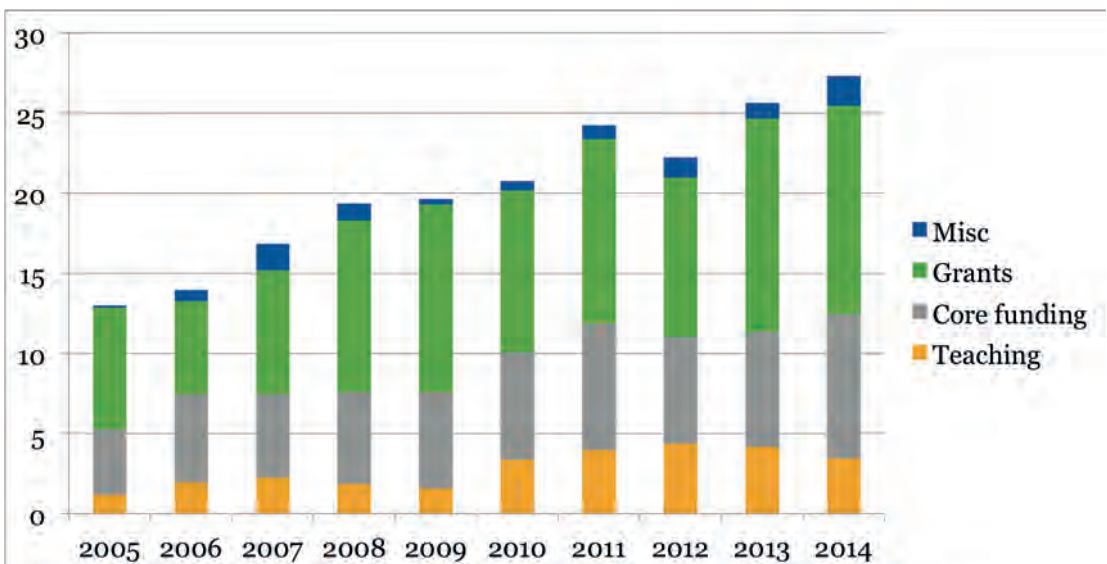


⌞ Costs MSEK.

“By any measure, this is a remarkable research unit. They do first-rate research and they have a strong and supportive research environment. They display a well-deserved, quiet confidence and have been very successful in gaining grant support. They have also become advisors to government and they have been prominent in the media. Both Philosophy and the History of Technology were well reviewed in 2008, and both have improved since that time. Both divisions need to develop a long-term strategy how to maintain this very high level of performance in the light of the problem of the medium term succession of several of their key leaders.

↳ Quote From RAE report in 2012.

Research Assessment Exercise (RAE2012). This was a useful evaluation for the Division and gave us not only feedback on our work so far but also strategic suggestions for the future. We were, as was the case in the RAE2008, evaluated as a Department together with the Division of Philosophy. Our research unit was ranked excellent together with 14 other excellent units at KTH, which resulted in more core funding. The recommendations of the international panel have been incorporated into our strategic thinking and we are able to use the evaluation in our own self reflection. It was a good starting point for the period described in this report.



↳ Revenues MSEK.

STRATEGY

WE BELIEVE THAT forming strategies for our work is of great importance. It brings directionality, assists decision-making and priorities, and it also provides a continuous learning experience to students, researchers and faculty. The first Division strategy comprised the period 2007 to 2012, the second and current strategy 2013 to 2017. The latter document can be found on our webpage.

THE DIVISION HAS developed expertise in a rather unique combination of historical fields. Many share the common feature of recognizing a spatial or material perspective on the past. Some central themes are recognized in the Division's name, others are captured by established terms such as industrial heritage, media history, cultural history, energy history, political ecology, history of universities, studies of research, higher education and innovation, and science and technology studies (STS).

THIS DIVERSITY IS one of the Division's most important strategic assets. The central strategic idea is to develop integrated combinations and collaborations among these themes. This relates to all areas of operation, including education, research, and public outreach and engagement.

IN THIS *POSTDISCIPLINARY* environment the different themes are not pursued as independent disciplinary projects as the focus is on promoting interactivity. This is visible in the integrated postgraduate programme of the Division, which includes clear elements of several of the themes expressed in the Division's title. The undergraduate courses that we offer reflect a similar pluralism.

THROUGH A DONATION by industrialist Carl Bennet the Division was able to establish the KTH Environmental Humanities Laboratory in 2012 with central KTH co-funding. The strategic vision for the Lab is an innovative post-disciplinary endeavor visible to the outside and at the same time integrating the Division.

INCREASINGLY WE TRY to work from transnational and global historical perspectives. For a long time we have been cooperating closely with colleagues in Europe and North America, but in the last years we have strengthened our relationships with colleagues and universities in other parts of the world with a special presence in Russia, the Arctic region, East and South Africa and India and China. Our research applications contain to a larger extent than before co-applicants from outside Sweden.

TO PUBLISH IS essential and therefore a lot of efforts were put into formulating stra-

- “ *Our point of departure is:*
- *that historical studies are central for understanding contemporary conditions and future change*
 - *that science and technology are part of our culture, and shape and change environments and conditions for life on earth*

We want to be a leading international environment for research and education through:

- *research that contributes original perspectives and new insights on the relations between science, technology, environment and society*
- *education that reaches students of various backgrounds and broadens their knowledge and perspectives*
- *participation in public debates that raises new questions and challenges current ideas*
- *building a diverse and integrated collection of historical expertise that is willing and able to address major societal challenges*

↳ Strategic mission of the Division.

tegic ambitions in this area. Publishing internationally is encouraged and activities aimed at achieving this were articulated in the strategy, such as workshops and courses. It was also targeted as one of the most important ones for follow-up and analysis.

UNDERGRADUATE TEACHING HAS long been seen as an important activity even though our possibilities for doing this at KTH are limited, due to the limited scope for humanities and social science in the engineering curricula. We believe that teaching is crucial and that our students, mostly of engineering, will be better professionals after taking courses with us. Moreover, teaching is a crucial component in building the career of young scholars and to connect with research. Therefore we continue our efforts to work towards expanding our teaching and establishing a master programme in the future.

FINALLY A FEW words should be said about the most important asset of the Division, the staff. Several crucial features of a successful work environment were identified in our strategy and can be summarized with the words transparency, organization, participation and respect. We recognize that it takes time and effort to make our Division a place where people want to spend their professional time.

KTH ENVIRONMENTAL HUMANITIES LABORATORY

A MAJOR DEVELOPMENT in the recent three year period is the establishment of the KTH Environmental Humanities Laboratory, EHL. This initiative was made possible thanks to a generous donation from industrialist Carl Bennet in late 2011, matched by KTH funds. It has already, after only a few years, had major impacts on the Division and also built a considerable reputation in Sweden and internationally.

THE STRATEGIC IDEA behind the EHL is twofold: to foster a postdisciplinary development through tapping into the growing international field of environmental humanities, and to further a humanities research agenda for sustainable development. The term “Laboratory” was chosen to signal an experimental approach – in content, form and expression.

THE EHL DID not emerge from a vacuum. There was already an interest in the field of environmental humanities at the Division, and informal discussions had been going on for some time. By the winter and spring of 2010 the plans had taken a more established direction. A further stimulus was the Nordic Network for Interdisciplinary Environmental Studies, NIES, which the Division hosted from 2011 to 2013. One of the first joint activities with NIES was a combined international conference and PhD course organised in Sigtuna 14-19 October 2011 titled “The Environmental Humanities”. When the purpose of the donation was discussed in the summer and fall of 2011 and Carl Bennet ensured us that we should do what we wanted the most – because that would give the best result – the choice of environmental humanities seemed natural.

THE EHL WAS planned as a long-term project in the Division over a period of six years, 2012 to 2017, by which time it would be evaluated and continued if considered valuable. However, already in 2014 the central KTH co-funding was made permanent and the duration of environmental humanities at KTH has thereby a future well beyond 2017.

THE FIRST YEAR was mainly devoted to the hiring of a Director and a first cohort of four PhD students, but also a few other initiatives were established. Marco Armiero, environmental and economic historian and political ecologist with an international background, was hired as Director and assumed his position in the summer of 2013. By that time three of the PhD students had already been hired in the winter and spring, and a fourth student was enrolled in the early fall of 2013.



↳ Sabine Höhler, auctions off Berlin water, soil, and air at the Anthropocene Campus 2014.

THE IDEA OF the EHL is to keep it distinct but integrated. It will work across the range of the environmental humanities, which means openness to fields such as literature, visual culture, philosophy, anthropology, religion, and the arts. This sits well with the overarching ambition to work towards postdisciplinarity. The EHL is part of the general operations and administration of the Division while at the same time functioning as a semi-independent unit with its own brand name. The experience so far is that this works very well. The PhD students are enrolled in the regular graduate programme with distinct environmental projects, which include literature, ethnic studies, museum studies. A new cohort of students in 2015 will further expand the overlap with for example anthropology and sustainability studies.

IN SEPTEMBER 2013 the EHL hosted a meeting with the institutions and associations in the Environmental Humanities field. During that meeting an Environmental Humanities Alliance was founded. Since September 2013 the EHL has been part of the Marie Curie Initial Training Network in Political Ecology, based in Barcelona, Spain. This ITN, called ENTITLE, gathers eight universities from Europe and Latin America and three non-academic partners from Europe and the Middle-East, training 18 PhD students in the field of Political Ecology. In 2014 the EHL formed a partnership with the University of Leeds, UK, and the Rachel Carson Center in Mu-



⌞ Attentive audience at the "Tales from Planet Earth" film festival.

Berkeley, 2012, anthropologist Kirsten Hastrup, Copenhagen University, 2013, and geographer Laura Pulido, University of Southern California, Los Angeles, 2014.

ANOTHER IMPORTANT OUTREACH activity was the environmental film festival “Tales from Planet Earth” at Filmhuset in Stockholm in April 2014. This was in collaboration with the Center for Culture, History and Environment, CHE, University of Wisconsin, Madison where a larger version has run for several years.

THE EHL HAS contributed significant additions to the graduate training. David Lowenthal spent part of the autumn semester 2012 at the Division giving a series of lectures and in connection we also offered a PhD course titled Geographies of Heritage. In June 2012 a workshop on Urban Ecology was organized in concert with a PhD course and in the spring of 2014 we organized a PhD course together with the doctoral programme on Topology at the Darmstadt University of Technology. That same spring, in connection to the film festival, a graduate workshop was organized with literary scholar Rob Nixon. And in connection to the Stockholm Archipelago Lecture by Laura Pulido, a graduate workshop on political ecology was organized. More information on these courses and workshops for this period can be found in the appendix.

nich, Germany, to propose the training programme *ENHANCE (Environmental Humanities for a Concerned Europe)*. This ITN programme, based in Leeds, was granted funding and will bring four new PhD students starting in the fall of 2015.

IN ORDER TO create an annual event that marks the presence of the EHL on the KTH campus as well as serving as an outreach activity we established the Stockholm Archipelago Lecture in 2012. Every autumn a public lecture has been offered, featuring an internationally leading figure in the Environmental Humanities. Our distinguished guests so far have been geographer David Lowenthal, London and UC

THE PERIOD 2012 to 2014 saw a surge of the so-called Anthropocene debates. The concept was launched by earth scientists in 2000 but in recent years much of the theorizing and contextualizing has been conducted by social scientists and humanist scholars, not least historians, and in the wider intellectual and artistic communities. The EHL has contributed to these discussions in several ways. One was the Anthropocene Curriculum, a two-year multi-event project hosted by the Haus der Kulturen der Welt, Berlin, in collaboration with the Rachel Carson Center, Munich, the Max Planck Institute for the History of Science, Berlin and the EHL. Scholars and PhD students in the Division contributed to the planning, design, the actual performance of the various events, from the opening in January 2013 to the final Anthropocene Campus in November 2014. More than one hundred PhD students, postdocs and artists were enrolled in the interdisciplinary Campus.

WE HAVE ALSO contributed to articles and books that have brought the understanding of the Anthropocene forward and appropriated it as a cultural and humanistic concept as much as a scientific one. In 2014 a new journal, *The Anthropocene Review* published its first issue, and the Division has a representative on its board of advisory editors.

THE ANTHROPOCENE IS also a keyword in several new and ongoing research projects and forms the core of a collaborative project, “Environmental Futures” that the Division launched in 2013 in collaboration with the University of Wisconsin, Madison and the Rachel Carson Center. The first event in this collaboration was “The Anthropocene Slam” of objects and performances organized in Madison in November 2014. A follow up seminar with essays based on the objects was held in Munich in July 2015. The EHL will host a third and final event in Stockholm in 2016.

THE ANTHROPOCENE WAS also a major theme at the Institute for Advanced Study in Princeton, NJ where Sverker Sörlin spent the academic year 2013-2014 as a fellow and member of the School of Social Science. Sverker was part of a thematic seminar called “The Environmental Turn and the Human Sciences”.

RELATED DISCUSSIONS ON concepts such as ‘resilience’, ‘planetary boundaries’, ‘ecosystem services’ demonstrate, among other things, the necessity of critical reflexions from the humanities. We continue to contribute to those discussions through our research and publications.

INTERNATIONALIZATION

FROM SVANTE LINDQVIST'S dissertation in 1984 on steam engines and technology transfer in the 18th century, a strong international orientation has been a salient characteristic for both research and teaching at our Division. For nationally small fields as ours an orientation to colleagues abroad has been very natural, and furthermore the flow of technological items, scientific ideas and environmental problems do not recognize national borders. Our students and researchers have been encouraged to present at international conferences and to publish internationally, we have had a long term exchange of doctoral students with MIT, and we have had many foreign visitors staying with us for shorter and longer periods.

OUR INTERNATIONAL ORIENTATION has mostly been directed towards Europe and North America where our fields have been most strongly rooted. We have been particularly active in associations such as the Society for the History of Technology, in which Arne Kaijser was the first non-American President. We have also been deeply involved in a major European research effort, the Tensions of Europe-network, which since 1999 has fostered and organized transnational research cooperation on the history of Europe "through the lense of technology" among more than hundred researchers all over Europe and also from North America. In September 2015 we will host the 7th conference for Tensions of Europe.

IN RECENT YEARS the work to internationalize has intensified in line with our strategy. An important part of some of our efforts lately is the understanding that also the academic world is truly changing and that the old and the new world will soon enough not be the primary places of important knowledge production. Rather, continents where we have limited experience have an exploding activity within higher education and research, and we want to profit from that.

A NEW ASPECT to our internationalization is recruitment. In 2010 virtually all PhD students and researchers in the Division had an undergraduate training from Sweden. This changed with the first EHL cohort in 2013 as students with international degrees were accepted. With the new Marie Curie ITN in 2015 the number of PhD students with an international degree equals those with a Swedish. The same can be said for post-docs, researchers and faculty. Today we have a great number of co-workers whose mother tongue is not Swedish and who brings not only new languages and knowledge to our Division but also interests and networks.



└ Jaideep Chatterjee explains Shiv Nadar University, India to Gunnel Cederlöf .

South Africa

WE HAVE A long time interest in East Africa in the past through dissertations by May-Britt Öhman (2007) and David Nilsson (2011). Our African links have recently been intensified through collaborations especially with the African Centre for Cities at the University of Cape Town where Henrik Ernstson is presently based. Henrik has been with the Division since 2013 and serves as the main connecting point between the Division and Cape Town organizing international conferences, book projects, and PhD courses and linking the Division's work to new developments in critical urban geography. A STINT grant 2013-2014 made it possible to conduct several exchange trips of staff and PhD students to Cape Town and co-publishing activities have been pursued. The African Center for Cities is also our partner in the seed grant project Towards Just Sustainability, which was funded by the International Social Science Council in 2014.

India

A DISSERTATION BY Jan af Geijerstam (2007) on the transfer of Swedish iron smelting technologies in the late 19th century stands as an example of a long-time interest for India. This has been stepped up in recent years, chiefly by part-time hiring of Professor Gunnel Cederlöf, an expert on the history of India and South East Asia, in 2013-2014. Gunnel has had a special commission to build networks with Indian



↳ Sverker Sörlin and Thom van Dooren prepares presentation.

scholars and institutions. In the fall of 2014 a group from the Division visited universities and other institutions in Delhi and the surrounding region and a workshop in Stockholm with Indian participation is planned for December 2015. The International Social Science Council seed grant has also offered an opportunity to reinforce connections with India, beyond academic partners. The NGO Community environmental monitoring program in Tamil Nadu is our partner in that project.

Australia

THROUGH LIBBY ROBIN, KTH funded guest professor 2011-2014, we have been able to extend our networks with Australia. Libby, Professor of Environment and Society at Australian National University and Senior Research Fellow at the National Museum of Australia, has conducted a project on environmental expertise, “Expertise for the Future”, with Paul Warde (East Anglia and Cambridge) and Sverker Sörlin in the Division. In October 2012 she co-arranged the conference *Collecting the future* at the American Museum of Natural History, New York, with multiple contributions from co-workers at the Division. She also organised the workshop *Invasion Biologies* in Stockholm in November 2013 with several participating Australian colleagues. From September 2015 to August 2018 Libby is Affiliated Professor of Environmental Humanities at KTH.

IN THE AUTUMN semester of 2014 Thom van Dooren, University of New South Wales visited the Division and organised the symposium *Im/mortality and In/finitude in the Anthropocene*. Thom has also been a close partner in discussions on the collaboration on the international journal *Environmental Humanities*. Since 2015 the EHL is a partner in this journal together with Concordia University, Canada; University of California, Los Angeles; Sydney Environment Institute, University of Sydney, and Environmental Humanities Program, University of New South Wales.

China and Japan

THE DIVISION HAS also started exploring cooperation opportunities with the Far East. Upon defending his PhD thesis at the Division in 2008, Ulf Andreasson was employed as a technical-scientific attaché by the Swedish Embassy in Beijing. More recently, Per Högselius spent the 2013-2014 academic year as a visiting scholar at the Institute for the History of Natural Sciences, Chinese Academy of Sciences, Beijing. This has resulted, among other things, in joint publications with Chinese scholars. At about the same time, Japanologist Kati Lindström joined the Division on a Wenner Gren fellowship and has opened new links to Japan. In summer 2015 Per Högselius further gave an intensive undergraduate course in natural resource history at Renmin University of China, Beijing, a leading institution in environmental history in China. In the fall of 2015 a Chinese scholar from Renmin University, Song Yunwei, will come to the Division as part of this emerging collaboration.

TEACHING AND TRAINING

First and second cycle teaching

UNDERGRADUATE TEACHING IS an important part of our undertaking, however, we are not able to teach as much as we like, nor as much as external evaluators of our potential have suggested. In the Research Assessment Exercise of 2012, one of the salient recommendations was that we should teach more. This has been part of our strategic thinking as well as a goal expressed in the annual contracts with the president of KTH. However, as long as the decisions on the content of engineering programmes are taken elsewhere and students' ability to choose courses freely are limited, we cannot expand like we wish to. Given this limitation, it is rewarding to see that teaching is actually increasing in both numbers and revenue.

MOST OF OUR staff is involved in teaching or the administration of teaching in one way or the other. Nina Wormbs served as director of undergraduate studies in 2012 and 2013. Since 2014, Per Högselius has taken over this task.

GIVEN THE BROAD scope of our scholarly expertise, it is not surprising that students both in programmes given by our own school – the School of Architecture and the Built Environment – and in programmes given by other KTH schools take part in our courses. There is also a high external demand for our courses – that is, from non-KTH students – although in this case our room for manoeuvring is limited due to the strictly limited number of places available.

BY FAR THE largest course, in terms of student numbers, is AK1213 Swedish Society, Culture and Industry in Historical Perspective, a thematically broad course that plays an important role at KTH for introducing foreign students to Sweden and its history. This course is mandatory or recommended for students in several programmes at KTH and for exchange students. Two other courses given by the division – AK2203 Media, Technology and Culture and AK2207 Energy Systems in Society – are mandatory for certain programmes (the Media Programme and the Energy and Environment Programme, respectively).

THE DIVISION ALSO gives several elective courses, most of which have sprung out of ongoing research and which thus offer useful opportunities to explore the synergies between research and teaching. These courses include AK2201 Energy and Geopolitics, AK1202 History of Science and Technology, AK1204 Environmental History, AK2202 Gender and Technology and AK1205 Science Goes Fiction. In these courses a lower number of students participated (up to 37 in the largest of them, Energy and Geopolitics).



⌞ The course "Environment and Society in a Changing Arctic" – a collaboration between KTH and University of Illinois at Urbana Champaign.

ANOTHER COURSE, AK1214/5 Environment and Society in a Changing Arctic was organized for the first time in June 2012 as part of our cooperation with the University of Illinois at Urbana Champaign. An important constituent of this course was field-based education. In 2012 and 2013, the field education took place on Svalbard and in 2014 in northern Sweden.

IN TERMS OF OUR work within courses given by other KTH division, our largest undertakings (by student numbers) included a 2-hp module on computer history, given as part of the course DD1390 Programme Integrating Course in Computer Science Engineering, and a somewhat smaller contribution to AI1137 Introduction to the Planning and Building Process. In cooperation with the ECE-school, we also gave an extensive, 7.5-hp module on Technology, Society and Environment as part of the course LL219U Technology for Teachers, which in turn forms an important part of the ambition to raise the competence of Sweden's primary and secondary school teachers.

PhD training

THE DOCTORAL PROGRAMME has a broad profile, with specializations in Industrial and Infrastructural History, Energy and Resource History, Science and Technology Studies, Political Ecology and Environmental Humanities, and a focus on the twentieth century. In the autumn of 2012 Sabine Höhler took over as Director of PhD training, which involves overseeing supervision issues as well as planning for teach-

ing. Sabine also takes part in the meetings with the doctoral programme as well as the PhD-training meetings at ABE-school level.

AS WITH OTHER activities at the Division, the PhD programme has become more comprehensive, as reflected in the name change, from History of Technology to History of Science, Technology and Environment. This name was introduced in 2011 as part of a major revision of the postgraduate programmes at KTH that were reduced in numbers and made considerably larger. However, a revision of the programme was done already before that, introducing new compulsory courses which in an orderly way made sure that all students acquired the same skill and experience, and not just the same knowledge. Central to this change were the process-oriented courses Introduction to research and Communicating research. The PhD training has been of approximately the same size for many years with an average of two finished dissertations per year and a total enrolment of 10 to 15 active PhD students at any given time.

AN IMPORTANT STRATEGY in the past few years has been to aim for a coordinated recruitment of doctoral students, in order both to create a vibrant social and intellectual community and to more easily manage teaching. To extend the number of courses and the network for PhDs we have also sought collaboration with other PhD programmes. Since 2014 the Division has initiated collaboration with TIK Centre for Technology, Innovation and Culture at Oslo University, and the Department of History of Science and Ideas at Uppsala University for exchanges in relation to doctoral courses and other common activities. Likewise, the EU Marie Curie Innovative Training Network (ITN) for which the Division applied in 2014 will provide similar collaboration with the University of Leeds and the Rachel Carson Centre at the Ludwig Maximilians Universität and the Deutsches Museum, Munich from 2015 through 2019.

GRADUATED PHDS DO not remain at the Division even if they receive external grants. Instead they are encouraged to seek positions elsewhere and place new projects at other institutions. We believe that this fosters autonomy and innovation. Moreover, since we hold the view that increased mobility is key to improving academic quality, we need to be consistent and apply this philosophy also to our own graduates. Our graduates have typically had academic careers and been successful in securing external funds and postdoc positions. Others have gone on to work outside academia, for example in the museum world, teaching, or consulting. The three PhDs graduating in the period 2012-2014 has or has had post-doctoral positions in Uppsala, Eindhoven and Paris.

COURSE WORK in the doctoral programme includes recurring obligatory courses and additional courses, which are often given in cooperation with guests at the Division or researchers from other institutions.

PHD COURSES OFFERED
2012
AK3016 Organizational Theory and History: Science, Technology and Institutions (7,5 cp), led by Katarina Larsen.
AK3017 Geographies of Heritage: Cultures, Environments, and Conservation in Times of Global Change (5 cp), led by Libby Robin
2013
AK3103 Theory and Method in Historical Research, Part 1 (7,5 cp), led by Sabine Höhler.
AK3104 Theory and Method in Historical Research, Part 2 (7,5 cp), led by Peder Roberts.
AK1N5503 Introduction to the Research Process (7,5 cp), led by Sverker Sörlin and Ingemar Pettersson.
AK3019 Urban Ecology – As Science, Culture and Power (4,0 cp), led by Henrik Ernstson, with assistance from Joshua Lewis and Sverker Sörlin.
2014
AK3118 Vizualizing the World - Making Sense of Our Environments, organized by Mikael Hård, Sabine Höhler and Nina Wormbs.
AK1N5504 Research Communication (7,5 cp), led by Maja Fjaestad.
AK3101 Perspectives on Science, Technology and Landscape in Time and Space, Part 1 (7,5 cp), led by Sabine Höhler and Thom van Dooren.

GEOGRAPHIES OF HERITAGE: Cultures, Environments, and Conservation in Times of Global Change was an international graduate course featuring the American geographer and historian David Lowenthal. This course was carried out during one week, from 10-14 September in 2012. Lecturers from the Division were Dag Avango, Anders Houltz, Libby Robin and Sverker Sörlin. Guest lecturers were Anders Ekström (Linköping University), Stuart Ward (University of Copenhagen), Sharon Willoughby (Australian National University), Christine Hansen (Gothenburg University) and Nanouschka Myrberg (Stockholm University). The course attracted about 20 students from Sweden and other European countries as well as from the United States.

URBAN ECOLOGY – As Science, Culture and Power was a one-week interdisciplinary and international PhD course was given in collaboration between the Environmental Humanities Laboratory, the African Centre for Cities at the University of Cape Town, South Africa and the Stockholm Resilience Centre at Stockholm University. It took place 10-14 June 2013 in relation to an international workshop and book project on urban ecology titled “Histories and Futures of Contested Urban Natures”, held at the Division during the same week. The course was attended by 11 students, from several different countries and disciplines. Lecturers included Amita Baviskar, India, Richard Walker, USA, Lance van Sittert, South Africa and James Evans, UK.

VIZUALIZING THE WORLD - Making Sense of Our Environments, was a collaboration with a doctoral programme at the Technische Universität Darmstadt. The course was taught by Petra Gehring, Gabriele Gramelsberger, Mikael Hård, Sabine Höhler,

DEFENDED THESES 2012-2014

DATE: November 30th, 2012, doctoral degree
NAME: Ingemar Pettersson

TITLE: *Handslaget. Svensk industriell forskningspolitik 1940–1980*

FUNDING: Vinnova, *Instituten i innovations-systemet*

FACULTY OPPONENT: Professor Sven Widmalm, Uppsala University

COMMITTEE: Professor Christina Garsten, Stockholm University, Professor Henrik Björck, Gothenburg University and Professor Magnus Gulbrandsen, Oslo University.

SUPERVISORS: Sverker Sörlin (main), and Katarina Larsen

DATE: December 14th, 2012, doctoral degree
NAME: Martin Emanuel

TITLE: *Trafikslag på undantag: Cykeltrafiken i Stockholm 1930-1980*

FUNDING: Vinnova, *CyCity: From car-centric to cycle-centric cities*

FACULTY OPPONENT: Professor Mikael Hård, Technische Universität Darmstadt, Germany

COMMITTEE: Professor Lars Nilsson, Stockholm University, Docent Karolina Isaksson, VTI and Associate Professor Dorthe Gert Simonsen, Copenhagen University

SUPERVISORS: Arne Kaijser (main), and Pär Blomkvist, KTH.

DATE: April 16th, 2013, licenciate degree
NAME: Petra Bauer

TITLE: *Sisters! Förhållandet mellan politisk handling och estetiska strategier i samtida film.* A collaboration between the Division and the Institution of Fine Art at Konstfack

(University College of Arts, Crafts and Design) in Stockholm.

FACULTY OPPONENT: Trond Lundemo, Stockholm University

SUPERVISORS: Sverker Sörlin (main), Magnus Bårtås, Konstfack Stockholm and Stefan Jonsson, Linköping University.

DATE: May 31st, 2013, doctoral degree
NAME: Anna Åberg

TITLE: *A Gap in the Grid: Attempts to Introduce Natural Gas in Sweden 1967-1991*

FUNDING: Energimyndigheten, *The Integration of Energy Markets across System and National Boundaries*, Swedish Research Council) and the European Science Foundation, *Europe goes Critical: The Emergence and Governance of Critical Transnational European Infrastructures (EUROCRIT)*

FACULTY OPPONENT: Professor Erland Mårald, Umeå University

COMMITTEE: Professor Jenny Palm, Linköping University, Professor Eva Jakobsson, University of Stavanger and Professor Mats Engwall, KTH.

SUPERVISORS: Arne Kaijser (main) and Per Högselius.

DATE: April 14th, 2014, licentiate degree
NAME: Carlos Cano Viktorsson

TITLE: *From Vision to Transition: Exploring the Potential for Public Information Services to Facilitate Sustainable Urban Transport*

FUNDING: Vinnova/ Center for Sustainable Communications (CESC) at KTH

FACULTY OPPONENT: Oskar Juhlin, Stockholm University

SUPERVISORS: Anders Gullberg (main), Arne Kaijser and Mattias Höjer (CESC)

Jens Lachmund, Josef Wiemeyer and Nina Wormbs. Apart from general lectures and seminars, the course included guided tours of the Estrange Space Center in Kiruna and of the Abisko Scientific Research Station ANS, where participants were housed. Hiking in the near mountains was appreciated.

IN 2012 AND 2013, five new doctoral students joined the division. In 2012 Daniel Svensson, with a background in history of ideas at Gothenburg University, started his PhD training with a project on elite training and physiology in cross-country ski-

ing in the project “Rational training: Scientific Methods of Exercise in Cross-Country Skiing”. The project is led by Sverker Sörlin and financed by Centrum för idrottsforskning (the Swedish National Center for Research in Sports). The PhD project was supplemented in 2014 with research on links between cross country ski training and mountain tourism in a project funded by the National Board of Antiquities with Sverker Sörlin and archaeologist Inga-Maria Mulk, Cambridge & Jokkmokk, as partners.



↳ Poster-session discussion in Abisko.

IN THE FIRST quarter of 2013, three new PhDs joined the Division in the EHL Environmental Humanities Laboratory. Maria Isabel Perez Ramos, coming from literature studies and ecocriticism, began PhD work with an environmental justice project on water management and land rights in the American Southwest. Anna Svensson has a background in literature studies and museum studies, and she explores the history of botanical collections and the order of nature with the example of the Oxford Botanical Garden. Her work is co-funded since 2015 by the Swedish Research Council in a project led by Sabine Höhler. Hanna Vikström holds a MSc degree in engineering physics. Her project explores Sweden’s position in the global discourse on rare metals. This work is financed in the project “Sweden and the Origins of Global Resource Colonialism: Exploring a Small Country’s Natural Resource Interests in Africa, Caucasia and the Arctic, 1870-1930”, led by Per Högselius and funded by the Swedish Research Council. Finally, Johan Gärdebo joined the Division in August 2013. Johan has a background in history and his PhD work is on imaging technologies and earth imagery with the Swedish-French satellite system SPOT. The work is financed by the project “Views from a Distance: Remote Sensing Technologies and the Perception of the Earth“, led by Nina Wormbs and funded by the Swedish Research Council.

RESEARCH PROGRAMMES AND PROJECTS

THE DIVISION HAS always been largely dependent on external funds. This dependency has forced us to develop a specific approach towards the acquisition of research projects and programmes. The growth of the Division in recent years rests almost solely on research projects, and the same is true for PhD training.

MAIN FUNDERS 2005-2012*	
VR	15,5
Vinnova	14,2
RJ	10,0
Wallenberg	7,4
Formas	7,2
STEM	5,8
Mistra	3,8
SU	3,0
Sida	2,1
Various	7,0
* New funders since 2012: Bennet donation, MMW & MAW.	

27 NEW RESEARCH projects were started in the Division during 2012-2014. In 2014 the total number of projects running was 34, which could be compared to 27 in 2010. However, there were only 17 in 2011. This is an indication that the frequency of new projects vary considerably from year to year. Also the size of projects varies a lot; the average size of new grants since 2013 is 2 MSEK.

BY FAR THE largest grant is the donation to the Environmental Humanities Lab (15 MSEK). Other large grants during 2012-2014 have been from the Mistra Foundation for Strategic Environmental Research for Arctic research (8 MSEK and 6,5 MSEK respectively) and the Swedish Research Council (5 MSEK, 5,6 MSEK and 3,6 MSEK). Substantial support has come within the government's strategic research areas (SRA) through the KTH Energy platform and collaboration with Uppsala University. Most grants are very competitive and come from research councils (VR, Formas) and foundations (RJ). So far, however, relatively few grants have come from international sources, with the European Science Foundation (ESF) and the Marie Curie ITN (EU) as exceptions.

THERE IS A wider spread of project leadership and coordination. In 2010 and 2011 more than half of the projects were led by full professors (17 of 27, 11 of 17, respectively). By 2014 this share had dropped to around a third (12 of 34). Although these numbers are somewhat ambiguous (some projects are hard to categorize) the trend is obvious: more young and mid-career scholars contribute to the acquisition of projects, while the grant earnings of professors remain on a high level. This has, perhaps strangely, not changed the gender balance of leadership. In 2010 only 4 of 27 projects were coordinated by female scholars; in 2014 it is still 4 projects that are

coordinated by female scholars. This is explained by the fact that women, despite being close to half the total research staff tend to be more numerous in junior positions and especially among PhD students. It is an important strategic mission to make sure that this imbalance is not maintained in the same way as is common in Swedish academia as a whole, and to mend the “leaking pipe”.

RESEARCH PROJECTS ALSO change demographically. The standard project is still relatively small: a single mid-career PI, or a senior PI with one or two junior contributing scholars, often from within the Division. Increasingly, however, projects involve out of Division scholars and above all, these scholars tend to come from different countries. In the two ESF projects on Inventing Europe scholars participated from Bulgaria, Denmark, Finland, Greece, the Netherlands and Norway (EUROCRIT) and Belgium, Denmark, France, Germany, the Netherlands, Norway and the US (EU-WOL) respectively. A shadow project without funding but with an MIT Press volume as a result gathered people from Canada, Finland, the Netherlands, Norway, Portugal and the USA. In the Mistra projects Russia, USA, UK, Norway, Finland, Iceland are/were represented; in the Formas projects on critical urban geography scholars from South Africa, USA, Australia and Canada take part, and the ISSC Transitions grant saw participation from Turkey, Portugal, Italy, Spain, India, South Africa, and Brazil. Projects also tend to be more thematic, often motivated by major issues or societal challenges and thus more interdisciplinary. They also typically require more coordination and administration.

WITH A LEVEL of external research funding at around 70 percent (2014) it is obvious that projects and programmes are vital to the Division. They offer the opportunity to conduct research that we wish to do and make it possible for us to fund new positions, especially for PhD students. They further offer flexibility and they provide evidence that our work is of good quality. On the other hand, short term funding does not sit well with strategic freedom. There is a never-ending balancing act to match ambitions with rational time use. The time we spend on grant writing has increased. In the period January 2013 to May 2015 we wrote or contributed significantly to more than 100 applications. The success rate was indeed high, close to 30 percent. Nonetheless, the average net cost per grant won was in the order of 5 full-time months, 0.7 MSEK.

TWO RESEARCH AREAS will be brought forward in this report, Infrastructure transitions and Arctic studies. This is partly because they cut across the different core competencies of the Division, partly because they together encompass a great deal of the work done at the Division at present.



↳ Sabine Höhler, Dag Avango, Annika Nilsson, Peder Roberts, Eric Paglia, and Lize Marié van der Watt on Svalbard.

Infrastructure transitions

MAJOR TRANSITIONS WITHIN energy, transport, communication and water systems has been a central research field at the Division since its beginning. This research has had different foci over the years, exemplified by the building of Nordic energy systems, transfer of road building expertise and ideology from the US, efforts to achieve Nordic broadcasting satellites, gender aspects in Tanzanian hydropower and dreams of nuclear in Sweden. This research has been funded by for example Riksbankens Jubileumsfond, Swedish Energy Agency, Swedish International Development Cooperation Agency (Sida), the Swedish Research Council, the European Science Foundation to mention a few.

IN THE PAST three year period a major effort has been to finalize an ESF project on critical infrasystems in Europe, which resulted in a co-edited book on this subject, a book on Soviet/Russian gas export and a dissertation on attempts (mostly failed) to import natural gas to Sweden. Another ambitious effort has been the writing of a book on Europe's Infrastructaure Transition, appearing on Palgrave 2015. The latest addition to this international effort is the participation in the H2020 project HoN-ESt History of Nuclear Energy and Society starting in the fall of 2015.

THIS LONG-TERM COMMITMENT in infrastructure and energy is also one reason for the engagement in the KTH cross-cutting platform on energy research. Through the government's strategic efforts we are part of the StandUp project, an energy collaboration between KTH, SLU and Uppsala university. Funding through this channel has



been substantial and allowed us to open an associate professorship in Energy history, which was given to Maja Fjæstad in great international competition.

THE EXPERTISE DEVELOPED in the infrastructure area has had societal and political impact in several dimensions. Arne Kaijser has served as expert in a number of government inquiries, Maja Fjæstad was expert advisor to the minister of energy Mona Sahlin (2004-6) and is at present on leave to serve as under-secretary of State for the minister of future issues Kristina Persson. Nina Wormbs was public inquirer for the minister of culture on digitalisation of Swedish radio in 2013-2014.

ENERGY IS ALSO core in two undergraduate courses developed in recent years, one is on Energy and Geopolitics and the other is a broad overview of energy systems in society, compulsory on the new engineering programme on energy and environment. A history-of-technology course on media is compulsory on the program on media technology.

The Arctic

THE ARCTIC HAS also been a central area of interest in the Division for a long time. In 1997 Marie Nisser and Sverker Sörlin (then at Umeå University) joined the first ever expedition designated for humanities and social science scholars on a research ship to Spitsbergen, organized by the Swedish Polar Research Secretariat. Since then humanities research in the polar regions has grown considerably, as demonstrated not least during the International Polar Year 2007 to 2009.

MUCH OF THE Arctic research has been motivated by climate change. Thanks to this long standing engagement and the increased opportunities for funding on the European, Nordic and Swedish levels the Division has built a comprehensive research profile on the Arctic and the North Atlantic. The Arctic has been prominent in Formas-funded research on the history of climate modelling, where collaborations have been forged with Stockholm Environment Institute, climate and oceanographic modellers at the Rossby Center of the Swedish Met Office (SMHI), and historians of science at the University of Aarhus and Colby College, Maine. The Mistra foundation has funded work on Arctic futures and continues since 2014 in a second phase with a focus on northern Scandinavia (until 2017). Recent work in the Division has put an emphasis on Cold War science with a new VR funded project starting, and on the environmental, technological and heritage dimensions of Arctic mining and other extractive industries (Nordregio, Nordforsk). Other work has focused on sustainable mountain tourism in Swedish Lapland (National Heritage Board).

THROUGH THE MANY projects and collaborations the Division has made links with local residents and communities in several places in the circumpolar world, primarily in northern Fennoscandia and Greenland. We have also built considerable networks with other polar oriented research centers such as those in Umeå, Oslo, Tromsø, Oulo, Rovaniemi, Cambridge, St Petersburg, Groningen. Our expertise is also sought after in advisory bodies and committees. Dag Avango has advised UNESCO and TICCIH on industrial heritage sites. Sverker Sörlin advised Nordforsk during 2011 to 2013 as it prepared its Arctic Futures programme to be launched in 2015. Nina Wormbs has served on the Advisory Council of the Swedish Polar Research Secretariat since 2014. The Division has also started a field based Arctic course for undergraduate students in collaboration with the University of Illinois. The first version of the course was offered in the summer of 2012 with a focus on Svalbard, and it has been repeated 2013 and 2014.

COOPERATION, COMMUNICATION AND IMPACT

COOPERATION WITH SOCIETY – *samverkan* in Swedish – is a long-standing tradition in the Division and remains a strong commitment. We continue to do research advice. The Division has two members in the Science Advisory Board of the present government; we advise NGOs, governmental agencies, universities and foundations, and we are represented on the boards of museums and institutes. We serve as experts or staff in public inquiries and work together with think tanks. Much of this is a result of the specialized knowledge and experience of our individual staff, but we also like to think that our specific research areas are particularly well suited for policy and advice.



↳ Nina Wormbs presenting public inquiry at a press conference at Rosenbad December 2014. Photo: Govt. offices.

IN THE LAST few years we have devoted particular attention to our web presence trying to use it both for internal and external purposes. News items are posted and recent publications automatically fed into the site from the KTH publication database. We have also produced new material such as a Video dictionary for the environmental humanities and pod casts.

CONTRARY TO COMMON belief we think that we can demonstrate an impact from historical research. History has performed many tasks in the past, some also less venerable. Our fundamental belief is that history now has to find a good *raison d'être* related to broader societal needs defined democratically and understood in the context of a globalizing world under pressure from environmental stress, climate change, economic strains, and weak democratic institutions in many parts of the world.

SO FAR OUR impact has thus primarily come through our research and our research publications and through our many forms of interaction with society outside academe.



⌞ Sverker Sörlin receives the Salvius prize 2013.
Photo: Christer Nordlund

One way to try and increase impact further is to work to change the general agenda for the humanities. In the fall of 2012 Anders Ekström and Sverker Sörlin concluded a project, funded by Riksbankens Jubileumsfond, on the “Future of the Humanities”. Its main product was a book, *Alltings mått: Om framtiden för humanistisk kunskap* directed to a wide audience. The book, and a previous report based on a survey of the current and historical conditions for the humanities (2011), can be seen in the wider context of a more intense reflection of what the humanities are for. They serve as they always did a core role in societies’ self-understanding

and knowledge of themselves. But there is also a sense of a need to engage deeper and to more directly engage humanities knowledge for future challenges.

A CORE CONCLUSION of the project was the necessity to foster new kinds of institutional environments for the humanities with openness to outreach and impact and new ways of engaging students, master’s students and PhD candidates in innovative programmes. This we also try to apply at the Division. The ambition affects our hiring practices and it is also built into the EHL and into several research proposals during 2014. It is also part of the thinking behind our strategic rejuvenating of research policy and higher education studies, which includes research on the past, present and future of the humanities.

ON THE KTH level we engage to change the agenda for, in particular, the training of future engineers and, more comprehensively, the entire educational programme of KTH as an institution. Our belief, in line with findings in the recent KTH educational evaluation, is that the institution should gradually depart from its exclusive training of engineers and open up to a broader curriculum, which would also secure a wider base of students and thus enhance the sometimes lower than expected quality of the educational programmes.

MUCH OF WHAT we do stems from a strong commitment to societal impact. A strategic idea behind the KTH Environmental Humanities Laboratory, for example, is that it will enhance the possibilities to make an impact on society as we believe that the global challenges also need the humanities to stand a chance of being addressed successfully.

PUBLISHING

TO OPENLY PUBLISH research results and ideas is a core value in academic work and a sign that the research is interesting, relevant and of sufficient quality. While publishing in English in respected and highly cited journals and books on university presses remain the norm for high quality publications we believe it is important to also maintain diversity. Publications reaching out to different audiences in Swedish and other languages outside the Anglophone world are a priority for us and also is part of our training of young scholars.

IN RECENT YEARS the Division's publication pattern has changed from a predominantly Swedish publishing in books to a predominantly international publishing, increasingly in journal articles and in books with international university presses. In 2000 the number of international peer reviewed journal articles of all publications in the Division was miniscule (2 from 10 researchers; academic staff and PhD students combined), in 2007 it was still very small (9, and 1 book, from 23 researchers), whereas in the period 2012-2014 it had soared to 12, 30, and 28, respectively, and an average of 5 international peer reviewed books per year (from some 25 to 30 researchers). To some extent this is part of a common pattern across the Swedish humanities and ultimately at least partly a result of the publications based reward systems. In general Swedish international publications in the humanities have trebled in the period 2000-2012 while the total number of publications doubled. International co-authorships (a minimum of one non-Sweden based author) increase as well, up from 10 to 20 percent of all humanities publications in Sweden in the same period (VR HS Review 2015 p. 9, <https://publikationer.vr.se/produkt/forskningsframtid-amnesoversikt-2014-humaniora-och-samhallsvetenskap/>).

THE DIVISION IS part of this general trend but we experience it in a more rapid and pronounced version. This warrants some reflection. First of all it reflects a more general internationalization effort where English becomes a language of communication in the Division. Although the entire Division have increased its international publishing it is also true that our recent international hirings contribute considerably. Another explanation is the widening of our disciplinary profile to include complementary strands of the social sciences such as media studies and critical geography where international publishing is more common. An increasing number of international collaborative projects, made possible by European, Nordic and to some extent Swedish funding sources, have resulted in special issues and edited volumes.

JOURNALS

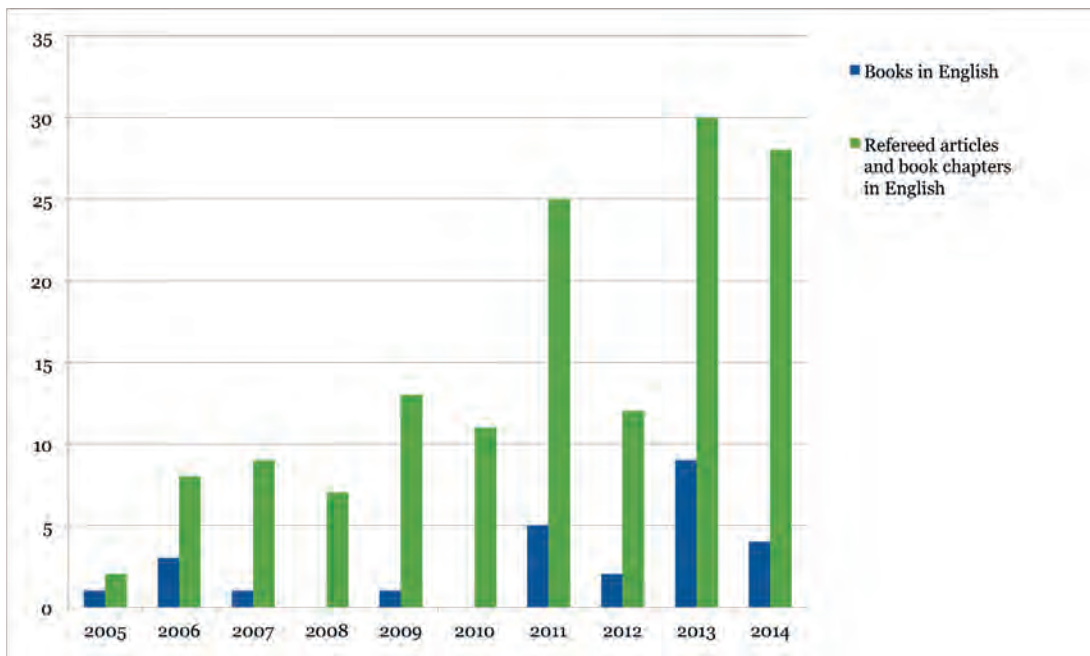
Nature
Science
Nature Climate Change
Technology & Culture
Environmental History
Environment & History
Science in Context
Social Studies of Science
Environmental Humanities
Energy Policy
Journal of Historical Geography
Landscape and Urban Planning
Journal of Religion, Nature and Culture

PUBLISHERS

Palgrave Macmillan x 5
Yale UP
MIT Press
Routledge x 2
Oxford UP
Pickering & Chatto
Ashgate
Peter Lang
Bloomsbury
White Horse Press
Univ. of British Columbia Press
Berghahn Books
CSIRO Press (Australia)

⌞ Examples of international output.

A FINER ANALYSIS demonstrates that the enhanced publication pattern is widely spread across our research staff, with obvious individual variations. Young and mid-career scholars have increased their share of the Division's international and peer reviewed publications, partly reflecting a trend towards article based PhD dissertations but more generally reflecting the publication-oriented research atmosphere. The gender balance has also improved. In 2010 female scholars in the Division contributed to 3 of a total of 10 authored or co-authored peer reviewed articles. In 2014 the corresponding figure was 19 of 37.





↳ Marco Armiero's book *A Rugged Nation. Mountains and the making of modern Italy* (2011) was translated into Italian in 2013. It received the Giuseppe Mazzotti prize in 2013 (above), the 2014 SAT prize (Società alpina tridentina), and a special mention from the SISSCO (the Italian Association of the Modern Historians).

THIS INTENSE FOCUS on research output has enhanced our visibility and presence in international research communities. However, it has come with some costs. The growth in staff and economic turnover is not matched by a linear growth in total scientific publication output, which is fairly stable over the last ten years at the same time as turnover has doubled and staff has increased. One interpretation is that we publish less in Swedish anthologies and journals and instead prioritize international peer reviewed publications, which demand more time per publication. Another explanation is that the definitions have changed. During the last ten years Diva, the KTH publication catalogue, was introduced and can be expected to have affected long-term comparison. At the same time we can note that the analysis is a bit crude due to the fact that mere numbers are only partly reflecting the real work. Articles and books both show up as single items, despite the major differences between them. If we want to know more about our long-term publication pattern, we need to go deeper. At the same time, even such an analysis is contingent given the relatively small work place. The gain or loss of a highly productive co-worker immediately shows in the statistics, so one has to be careful.

WHAT HAS REMAINED important is publications for a broad public sphere and for prioritized special audiences in policy, media, NGOs etcetera. The same is true for our appearance in radio, television and social media. We have also managed to maintain a substantive stream of ambitious popular science and narrative non-fiction books. All in all, we seem so far to have been able to balance the desired international scholarly publishing with a maintained public and policy presence in Sweden.

OUR WORKPLACE



└ Arne Kaijser.

values. Making sure that steering documents for undergraduate teaching or PhD training are updated and used further contributes to establishing a common ground. A challenge is to grow in size and keep informality in communication. As we grow bigger we will have to find new ways of meeting and interacting.

DIVERSITY IS IMPORTANT also as we develop our academic community. We seek to build a post-disciplinary humanities environment, which we in the last few years have started to call “integrative”. Integration means to bring research, education, PhD training, and outreach into a coherent, yet diverse, mutually supporting whole – in the Division as an entity, but also as far as possible in every individual scholar. This is also part of the care we put into career making for younger scholars. They are funded essentially on grants, but they need teaching time and outreach experience. Compulsory training in writing for different audiences, in grant acquisition and in teaching speaks to this ambition.

HOWEVER, OUR COMMUNITY is also built by other means. Humanities research is traditionally individual, but we believe firmly that working together is both better and more fun. This does not mean that we do not have individual publication and projects, but rather that we try to foster exchange and collaboration. At the monthly information meetings we try to share ideas and interests, not just information items

OVER THE YEARS the Division has worked consciously to develop an environment that is welcoming, inclusive, non-hierarchical and encouraging. We are confident that this will also support our academic ambitions. We have taken to heart the growing research based evidence to sustain the argument that diversity (including gender balance) sustains creativity. Organisationally we have put in place a set up that is inclusive and transparent with clear division of responsibility. It should be known to everyone what rules apply and what is expected. To some extent, formulating the strategies were also ways of articulating already tacit knowledge and



↳ Isabel Perez and Anna Svensson assemble the windowfarm.

and itineraries. As mentioned, grant writing is increasingly a collective effort and even those who are not on an application help out.

WE ARE CONFIDENT that our increased impact and greater interest from outside is connected to the quality of our social environment. To put it simply: it matters if people like to go to work. In the last co-worker evaluation at KTH, the Division was ranked very high, confirming what we had expected. Our yearly kick-off meeting in the beginning of the autumn term builds community as does lunches and coffee breaks. Irregular common sports activities and excursions offer possibilities of other kinds of exchanges than the normal academic. Cake can be made and offered both when a grant is won (almost considered compulsory) and when a competition is lost (for contemplation). Of great importance is also the daily interaction, which – this we now know by experience – can be facilitated by a good space. In February 2014 we moved into our own corridor on the top floor in the new building at the School of Architecture and the Built Environment. For the first time in almost twenty years we now share a common space, which in its design and architecture allows for both great social interaction and secluded, concentrated work. •

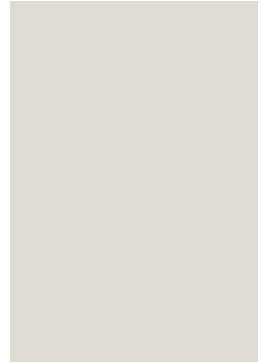
APPENDIX:
COWORKERS 2012 – 2014



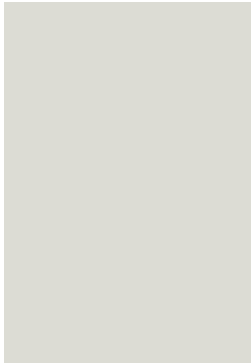
MARCO ARMIERO
Director of KTH
EHL. Environmental
historian. From 2013.



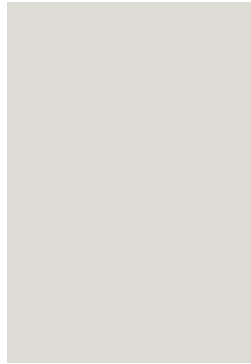
DAG AVANGO
Researcher in history
of technology.



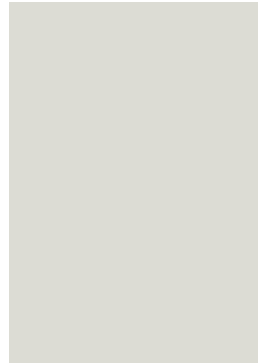
PETRA BAUER
PhD student. Until
2013.



MATS BENNER
Professor at Lund
University. Research
policy. From 2014.



MARIA BOHN
PhD student.



NILS BRUZELIUS
PhD student. Until
2014.



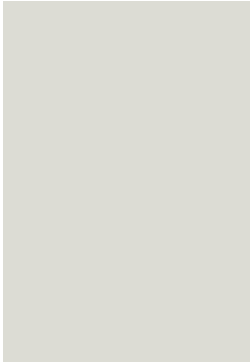
GUNNEL CEDERLÖF
Professor at
Uppsala University.
Environmental
History. From 2014.



CARINA CHALLIS
Administrator. Until
2014.



MIYASE
CHRISTENSEN
Guest Professor
in media and
communication
studies. From 2013.



ANDERS EKSTRÖM
Associate Professor in
history of ideas. Until
2012.



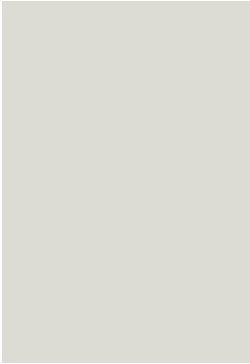
MARTIN EMANUEL
PhD student. Until
2013.



HENRIK ERNSTSON
Researcher in urban
political ecology. From
2013.



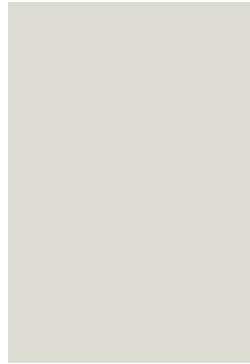
MAJA FJÆSTAD
Assistant Professor in
history of science and
technology.



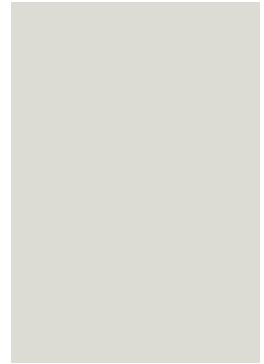
ANDERS GULLBERG
Adjunct Professor in
history of technology.
Until 2014.



JOHAN GÄRDEBO
PhD student. From
2013.



OLOF HALLONSTEN
Postdoctoral
researcher in sociology
of science. From 2013.



STEVEN HARTMAN
Researcher in
ecocriticism, 2012-
2013.



ANDERS HOULTZ
Researcher in history
of technology and
industrial heritage
studies. Until 2013.



PER HÖGSELIUS
Associate Professor in
history of technology
and international
relations.



SABINE HÖHLER
Associate Professor in
science and technology
studies.



SOFIA JONSSON
Administrator. From
2014.



ARNE KAIJSER
Professor in history of
technology.



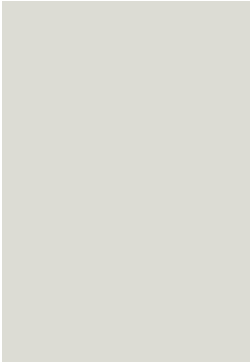
JAN KUNNAS
Postdoctoral researcher
in environmental and
economic history.
From 2014.



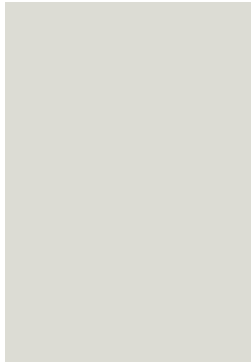
KATARINA LARSEN
Researcher in
innovation and
sustainability studies.



SUSANNA
LIDSTRÖM
Postdoctoral
researcher in literature
and environment
studies.



JULIA LINDKVIST.
PhD student. Until
2013.



BIRGITTA
LINDSTRÖM
Financial
administrator.



KATI LINDSTRÖM
Postdoctoral researcher
in environmental
humanities. From
2014.



JESPER MEIJLING
PhD student.



ADAM NETZÉN
PhD student.



ANNIKA NILSSON
Affiliated researcher in
international relations.
From 2014.



DAVID NILSSON
Researcher in history
of technology and
development studies.



ERIC PAGLIA
PhD student.



ISABEL PEREZ
PhD student. From
2013.



INGEMAR
PETTERSSON
PhD student. Until
2013.



PEDER ROBERTS
Postdoctoral
researcher in history of
science.



LIBBY ROBIN
Guest Professor in
environmental history.



ANNA SVENSSON
PhD student. From
2013.



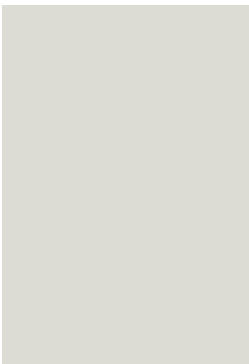
DANIEL SVENSSON
PhD student. From
2012.



SVERKER SÖRLIN
Professor in
environmental history.



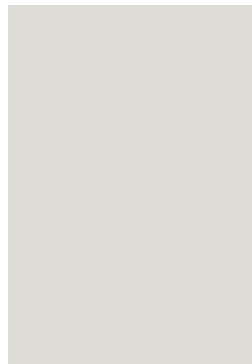
HANNA VIKSTRÖM
PhD student. From
2013.



CARLOS A. CANO
VIKTORSSON
PhD student. Until
2014.



NINA WORMBS
Head of Division and
Associate Professor in
history of technology.



PETER WULFF
PhD student.



ANNA ÅBERG
PhD student. Until
2014.

APPENDIX: VISITING SCHOLARS

DOROTHY ZEISLER-VRALSTED – Professor of History at the Department of Government / International Affairs Eastern Washington University. November-December 2014.

THOM VAN DOOREN – Senior Lecturer in Environmental Humanities at the University of New South Wales in Australia and co-editor on the international journal Environmental Humanities. Intermittently August-December 2014.

SAARA MATALA – PhD student in the History of Industrialisation at Aalto University, Finland. Sara's research interests concerns the Finnish shipbuilding industry towards the end of the Cold War period. Intermittently September-December 2014.

GIACOMO BONAN – PhD student at the University of Bologna working on commons and property rights in the eastern Alps in the 19th century. August-November 2014.

ROBERTA BIASILLO – PhD candidate at the University of Bari, Italy. Her research project is about the Italian forests from 1861 to the end of the 19th century. March-September 2014.

ROB NIXON – Professor of English at the University of Wisconsin, Madison. Rob visited the Division for the film festival Tales from Planet Earth, and also lead a workshop at the Division on the topic Writing and Activism: Challenging the Status Quo. 8-12 April 2013.

GRAEME WYNN – Professor of historical geography and environmental history at the Department of Geography, University of British Columbia in Canada. Among other things Graeme took part in a workshop on Northern Nations, Northern Natures. October-November 2013.

KIRSTEN THISTED – Associate Professor at the Department of Cross-Cultural and Regional Studies at the University of Copenhagen. During her stay at the Division Kirsten gave a higher seminar about Imperial ghosts in the North Atlantic – old and new narratives about the colonial relations between Denmark and Greenland. November 2013.

CORINNA DE GUTTRY – PhD student, Helmholtz Zentrum Geesthacht and Department of Integrative Geography, Hamburg University. Research project: Cultural climate change perceptions among immigrants. November 2013–January 2014.

ANNA STENPORT – Professor of Scandinavian Studies and of Germanic Literatures at University of Illinois. May-June 2013.

PER AXELSSON – Researcher in history at Umeå University. His research focuses on indigenous people, their demography, health, and the colonization effects on indigenous people. April-May 2013.

URBAN WRÅKBERG – Professor of Northern Studies at The Arctic University of Norway. Urban conducts research on social, political and scientific issues of the north, with a focus on the Euroarctic and the borderlands of the Barents Region. Spring semester 2013.

LIZE-MARIÉ VAN DER WATT – PhD in history from Stellenbosch, South Africa, focusing on Antarctic issues. Several shorter stints during 2012 working on Arctic questions.

DAVID LOWENTHAL – Professor Emeritus of Geography at University College London. He has worked for UNESCO, ICOMOS and the British Museum. Since 2001, he is a member of the British Academy. September 2012.



└ David Lowenthal.

APPENDIX: ARRANGED CONFERENCES, WORKSHOPS AND SUMMER SCHOOLS

The National STS-Meeting 2-4 May 2012

THE FIELD OF Science and Technology Studies has increased both nationally and internationally. In the spring of 2012, the Division hosted the National STS-meeting at KTH. During 2-4 of May about 90 scholars took part, not only from Sweden but also from the Nordic countries and sometimes even from far away, presenting together with a Swedish colleague. There were two key notes, the opening one by Professor Rebecca Herzig, Bates College, Maine on the topic "The Question of Labor in Recent Science and Technology Studies", and the closing one by Professor Alf Hornborg, Lund university under the heading "Technology as Time-Space Appropriation".

STS Meeting in Stockholm, May 2-4, 2012 Program

Wednesday, May 2

14:00 – 16:00 **Special Interest Meetings**

STS Education

Doktorandträff

16:00 – 17:00 **Coffee Break and Registration** (Lindstedtvägen 3, ground floor)

17:00 – 18:00 **Plenary** (Lindstedtvägen 3, LV3)

Welcome. Opening Lecture: Rebecca Herzig, Bates College, "The Question of Labor in Recent Science and Technology Studies"

18:00 **Reception** (Lindstedtvägen 3, entréplan)

Thursday, May 3

9:00 – 10:30 **Parallel Sessions** (Brinellvägen 64)

1A *Environment and Technology* (Room M32, 1st floor)

1B *Public Health* (Room M33, 1st floor)

1C *Markets* (Room M37, 3rd floor)

10:30 – 11:00 **Coffee Break and Registration** (Brinellvägen 64)

11:00 – 12:30 **Parallel Sessions** (Brinellvägen 64)

2A *Climate and Risk* (Room M32, 1st floor)

2B *Organizations and Industry* (Room M33, 1st floor)

2C *Analyzing the Interface between Science and Technology: Technological Hybrids, Science Networks and Sleeping Beauties* (Room M37, 3rd floor)

12:30 – 14:00 **Lunch** (Q-Restaurant, Osquidas väg 4)

14:00 – 17:00 **Parallel Sessions** (Brinellvägen 64)

3A *Politics by what Means? Scandinavian Approaches to STS and "the Political"* (Room M32, 1st floor)

3B *In Medias Res: The Aesthetics of Scientific, Technological and Medical Things* (Room M33, 1st floor)

3C *Teknik, Praktik, Identitet* (Room M37, 3rd floor)

15:30 – 16:00 **Coffee Break** (Brinellvägen 64)

3A *Politics by what Means? Scandinavian Approaches to STS and "the Political"* cont'd (Room M32, 1st floor)

3B *In Medias Res: The Aesthetics of Scientific, Technological and Medical Things* cont'd (Room M33, 1st floor)

3D *STS och engagemang i en svensk kontext* (Room M37, 3rd floor)

19:00 **Conference Dinner** (KTH Reaktorhall, Drottning Kristinas väg 51)

Friday, May 4

8:30 – 10:00 **Parallel Sessions** (Brinellvägen 64)

4A *Architectures* (Room M32, 1st floor)

4B *Museums in the Anthropocene: Climate Change and Social History* (Convenor Libby Robin) (Room M36, 1st floor)

4C *Cosmopolitan Commons* (Room M33, 1st floor)

10:00 – 10:30 **Coffee Break** (Brinellvägen 64)

10:30 – 12:30 **Plenary** (Lecture Hall Brinellvägen 23, ground floor B2)

Keynote Lecture: Alf Hornborg, Lund University, "Technology as Time-Space Appropriation." Commentary.

12:30 End of conference

Controlling aliens? Invasion biologies and theorising the native 31 October-1 November 2012

ONE OF THE great concerns of a globalized world is the spread of invasive species, including weeds, pests and feral animals. Much of this discourse is led by those focused on their destruction and management. This international workshop, organized by Libby Robin, questioned whether it is possible to control invasive species or even to decide what belongs in a place, and what does not, and the ethical and historical context of introduced species.



⌞ Noxious weed display at the North Coast show, Nambour, 1960 (Heritage Library, Sunshine Coast Council).

KEYNOTE SPEAKERS WERE environmental historian, Nancy Langston University of Wisconsin/ Royal Professor, University of Umeå, who spoke on invasive species, fisheries collapse, and multiple stressors in the Great Lakes of North America; geographer Bill Adams from the University of Cambridge, whose focus was order, control and the policing of wild nature, in England and internationally; and geographer Lesley Head University of Wollongong, Australia / Guest Professor, University of Gothenburg, who drew on northern Australia for a discussion of bodies in invasive plant management.

AN INNOVATION OF the workshop was a panel What's Natural?, which brought together three pre-circulated papers of new work in progress in Sweden for an extended discussion. The papers were Dolly Jørgensen (Umeå University) "Remembrance and reintroduction: The role of cultural memory in two beaver reintroduction efforts"; Anna Tunlid (Lund University) "Changes in Swedish Biodiversity Policies over Time" and Jenny Beckman (Uppsala University) "Making lists, making borders: Threatened species and Nordic relations". Audio recordings of keynote speakers and links to other reports: <http://ceh.environmentalhistory-au-nz.org/research/the-culture-of-weeds/>

The history of hunting and wildlife management 20 February 2013

THE DIVISION HOSTED a workshop organised by Kjell Danell and Roger Bergström from The Swedish Agricultural University SLU and Sverker Sörlin and Susanna Lidström from the Division to initiate an interdisciplinary research network around questions about wildlife and hunting history in Sweden. About 35 people participated, from Stockholm University, Umeå University, Linköping University, SLU, Svenska jägareförbundet and Norges skogseierforbund. The workshop was funded by Svenska jägareförbundet.

KTH-NIFU seminar about Nordic studies of research and innovation 8 May 2013

IN MAY A half-day seminar was organised as a collaboration between The Division of History of Science, Technology and Environment and the Department of Learning at KTH and the Nordic Institute for Studies in Innovation, Research and Education (NIFU). Katarina Larsen and Sverker Sörlin from the Division participated.

Histories and Futures of Contested Urban Natures 12-14 June 2013

IN MID JUNE 2013, The Division organized an international workshop tied to a book project and with a doctoral course piggy backing on the seminars. Participants included Amita Baviskar (India), Richard Walker (USA), Lance van Sittert (South Africa), Jens Lachmund (The Netherlands), Lisa Hoffman (USA) and James Evans (UK). The event was organized by Henrik Ernstson, Joshua Lewis and Sverker Sörlin.



⌞ Worlding urban natures—from Dalian, to Delhi, Berlin, Cape Town, Rio and San Francisco (www.rhizomia.net).

Mapping Common Ground: Ecocriticism, Environmental History, and the Environmental Humanities 2 September 2013

ECOCRITICISM AND ENVIRONMENTAL history both seek to understand the relationship between human beings and their natural environments, and they understand this to be a task that requires an interdisciplinary approach. Nevertheless, thus far actual engagement between these two disciplines has occurred only sporadically and at the margins. The premise of this workshop is that both can benefit from resituating their scholarly efforts within the broader interdisciplinary framework of what is coming to be called “the environmental humanities.”

THE AIMS WERE to identify areas of research where closer interdisciplinary cooperation between literary and historical scholarship concerned with environmental issues will be particularly fruitful; to formulate a set of concerns or basic assumptions shared by both fields; and to discuss to what extent their respective methods and conceptual vocabularies can complement each other. In the course of the workshop, the participants prepared a draft for a position paper summarizing the results of their discussions, which they will continue to work on during the autumn.

PARTICIPANTS: LIBBY ROBIN (KTH), Kate Rigby (Monash University), Agnes Kneitz (RCC), Susanna Lidström (KTH), Shane McCorristine (Cambridge U), Dana Phillips (U of Towson), Isabel Perez (KTH), Adeline Johns-Putra (U of Surrey), Marco Armiero (KTH) and Hannes Bergthaller (U of Taiwan). The workshop resulted in this paper: “Mapping Common Ground: Ecocriticism, Environmental History, and the Environmental Humanities”, *Environmental Humanities*, 5 (2014), 261-276.

Environmental Humanities Workshop 3 September 2013

THIS MEETING WAS a follow-up workshop to the NIES-organized meeting in Oslo in September 2012. The chief objective of the meeting, besides enabling continued conversation among organizations and institutes in the field, was to seriously continue discussions carried out in Oslo on how the Environmental Humanities can impact policy in a broad sense. This was the second of a planned series of three coordinated meetings involving academic partner organizations and institutions meant to address capacity-building in the European Environmental Humanities and wider engagement of researchers in this field in international research and policy developments.

APART FROM BRINGING the outcomes of last year’s discussions to bear on this workshop a substantive part of the programme included an informal meeting with key actors representing our stakeholder community or in a wider sense those outside

of Academia who we believe should have an interest in Environmental Humanities research. If we claim, which we do, that the Environmental Humanities have a particular mission to impact on society and want to make ourselves known not only for our scholarly contributions but also for our usefulness in broad societal transitions on many timescales, then we need to be in dialogue with society, forge relationships and reflect on means and methods of societal collaboration. The idea was to have a discussion on *how to work and engage more broadly* and at the same time also address *what specific areas* are of most concern to the attending actors at this point.



PARTICIPANTS FROM KTH-EHL Stockholm were Marco Armiero, Libby Robin, Sverker Sörlin and Nina Wormbs; from RCC Rob Emmett; from NIES: Steven Hartman (Mid Sweden University), Mark Luccarelli (University of Oslo); ASLE-UK: Adeline Johns-Putra (University of Surrey) & EASLCE: Hannes Bergthaller (University of Taiwan); ICEHO: Julia Lajus (European University at St Petersburg); Poul Holm, Trinity College Dublin, also representing the Vilnius group which met in September; Karen Lykke Syse, University of Oslo, Center for Development and Environment; Libby Robin, Australian National University and KTH-EHL; Gísli Pálsson, University of Iceland, former head of the RESCUE programme (ESF/COST); Asuncion St. Clair, CICERO, University of Oslo.

ULRIKA BJÖRKSTÉN, SWEDISH Science Radio; Göran Blomqvist, CEO, Riksbanken Foundation, Sweden; Mikael Karlsson, the Swedish Association for the Protection of Nature (200 000 members, founded in 1909); Lars-Erik Liljelund, CEO, Mistra Environmental Foundation, Sweden; Piero Mazzinghi, Scientific Attaché, Embassy of Italy in Sweden; Lucas Pettersson, The Swedish Research Council, were also invited and participating in the discussion. Planning for this meeting was conducted in collaboration between the KTH Environmental Humanities Laboratory of the Division of History of Science, Technology and Environment (KTH-EHL; also the host institution of the meeting), the Rachel Carson Center (RCC) and the Nordic Network for Interdisciplinary Environmental Studies (NIES), which is in turn hosted by the Division at KTH.

Tales of Planet Earth

tales from planet earth

APRIL 9-12, 2014 | STOCKHOLM

Filmhuset, Gärdet | Nobel Museum, Gamla Stan

FREE film festival

FUTURES

featured events

OPENING KEY NOTE
WEDNESDAY, APRIL 9, FILMHUSET
14:30 ROBERT MASON: ENVIRONMENTAL JUSTICE IN THE TIME OF THE ANTHROPOCENE

ROUNDTABLE DISCUSSION
SATURDAY, APRIL 12, NOBEL MUSEUM
14:00 FOR THE PEOPLE, BY THE PEOPLE: ISSUES ON REPRESENTATION IN ENVIRONMENTAL JUSTICE MOVEMENTS

METAMORPHOSEN (2013)
84 MIN. GERMANY
WEDNESDAY, APRIL 9 @ 20:00
FILMHUSET

POWERLESS (2013)
84 MIN. INDIA
THURSDAY, APRIL 10 @ 20:00
FILMHUSET

EXPEDITION TO THE END OF THE WORLD (2013)
89 MIN. SWEDEN/DENMARK
FRIDAY, APRIL 11 @ 20:00
FILMHUSET

FOR A COMPLETE LIST OF FILMS, GUESTS, AND EVENTS, SEE kth.se/tales-sthlm

TALES FROM PLANET EARTH STOCKHOLM IS ARRANGED BY:
KTH ENVIRONMENTAL HUMANITIES LABORATORY
DIVISION OF HISTORY OF SCIENCE, TECHNOLOGY AND THE ENVIRONMENT

PRESENTED BY



IN COOPERATION WITH



Northern Nations, Northern Natures 9-11 November 2013

BOTH CANADA AND Scandinavia have long traditions of thinking and writing about northern environments – and of conceptualizing northern spaces as particularly national. What are the important differences and similarities between research traditions on opposite sides of the Atlantic? And what can we learn from each other?

IN ORDER TO address these and other issues, on November 9-11 the Division hosted the above workshop bringing together scholars from Canada and Scandinavia working on environmental history in the world's northern regions. In addition to a series of lectures from senior researchers, PhD students from Canada, Sweden, and Finland will present research in progress. The aim is to help build a trans-Atlantic network – particularly for graduate students and early-career scholars – with an eye to future collaborations and exchanges. The workshop was made possible by funding from Formas and NiCHE (the Network in Canadian History and Environment) and is organized by Peder Roberts (KTH) and Tina Adcock (University of Maine).

Writing and activism: Challenging the Satus Quo 4 April 2014

ON 8 APRIL the EHL hosted a workshop on the topic: *Challenging the Status Quo: Research, Writing and Activism*. The participants in the workshop ranged from prominent academics on different fields to activists and artists. We were proud to have Rob Nixon, Rachel Carson & Elizabeth Ritzmann Professor of English at the University of Wisconsin-Madison, as our special guest. His most recent book *Slow Violence and The Environmentalism of the Poor* was a crucial point of departure for this seminar.

THE GENERAL TOPIC for the workshop was writing and activism, and some of the questions the questions that were addressed included how to better communicate research inside and outside academia, how to voice and address issues outside the mainstream concerns, and how to address more traditional concerns in innovative ways. The workshop was a pre-event to the film festival *Tales from Planet Earth*, also organised by KTH Environmental Humanities Laboratory.

Environmental Humanities Laboratory workshop with Laura Pulido 10 October 2014

FOLLOWING THE ARCHIPELAGO Lecture on 9 October, the EHL hosted a workshop with Laura Pulido. The workshop was for PhD students and post-docs, and focused on the main themes of Laura Pulido's work.

Cosmopolitanism and the Margins - An international symposium on *Voice, Space and Citizenship* 30-31 October 2014

THIS WORKSHOP SOUGHT to offer contextual understandings of a broad range of questions and debates that materialize around multiculturalism, marginal/ized communities, race-racism-racialization, global social movements, environmental crises, and art and 'expressive cultures'. While recent social incidents that invoke such debates (such as the various global uprisings and urban riots) constitute concrete contexts within which to reconsider the purchase of cosmopolitanism as idea and ideal, the symposium aims to generate theoretical thinking and deliberation on the trans-historic and transcultural viability of cosmopolitan thought.

COSMOPOLITANISM AND THE Margins is part of the ongoing research project *Cosmopolitanism from the Margins: Mediations of Expressivity, Social Space and Cultural Citizenship* funded by the Swedish Research Council and hosted by the Division of History of Science, Technology and Environment at KTH Royal Institute of Technology (Proj. Dir.: Miyase Christensen, Stockholm University and KTH Royal Institute of Technology; Co-investigator: André Jansson, Karlstad University; Doctoral Researcher: Tindra Thor, Stockholm University).

Im/mortality and In/finitude in the Anthropocene – International Symposium 2-4 December 2014

THE AIM OF this symposium was to explore the shifting relationships between time, mortality and finitude in the context of the Anthropocene. While the fear of capricious immortals living high atop Mount Olympus may have waned, the current age of the Anthropocene appears to have brought with it insistent demands for us mere mortals to engage with unpredictable and dangerous beings that wield power over life itself. Plastics, radioactive waste, fossil fuels and species extinctions have interpellated us into unfathomably vast futures and deep pasts, with their effects promising to circulate through air, water, rock and flesh for untold millions of years. Human time, geological time and a host of other temporal frames and possibilities confront each other in new ways, with little understanding on our part of how to find calibrations that might allow a reconciliation between them.

ONE CONSEQUENCE IS that relationships between life and death, creation and decay have become uncanny; no longer entailing what was once taken for granted. The unravelling of inter-generational and inter-species relationships in the current mass extinction event shifts death from being a partner to life toward the 'double death' that amplifies mortality until it overruns life altogether. While at the same time, the



⌞ Workshop snapshot.

finitude of acts of creation is no longer as certain as it might once have been. Instead, in specific, but crucial contexts, it is not the dissipation and silencing of our creative and technical works that is feared, but the threat that they might circulate endlessly.

KEYNOTE SPEAKERS WERE Vinciane Despret (University of Liège/Free University of Brussels), Joseph Masco (University of Chicago), Sverker Sörlin (KTH). Organizers were Thom van Dooren (University of New South Wales) and Michelle Bastian (University of Edinburgh). The panel sessions were accompanied by an “open space” session and an exhibition (“D.I.Y. exhibit”) featuring Anthropocene objects. Pictures and presentations can be retrieved at <http://www.immortalityandinfinity.net>

APPENDIX: COLLOQUIA

Spring 2012

MONDAY 16 JANUARY, 13.15-15.00
Maja Fjaestad, Division of History of Science and Technology, KTH: "Sataniska manipulatörer eller tekniken i människans tjänst? Svenska teknologföreningen och miljörelsen"

MONDAY 23 JANUARY, 13.15-15.00
Laura Hollsten, Åbo Akademi, Turku: "Laying out the history of a language minority university: Åbo Akademi University 1918-2018"

FRIDAY 3 FEBRUARY, 13.15-15.00
Ingemar Pettersson, Division of History of Science and Technology, KTH: "De svenska industriforskningsinstituterna: Kollektiv forskning, utvecklingskontrakt och innovationspolitik 1940-1980" (Slutseminarium i forskarutbildningen)

MONDAY 20 FEBRUARY, 13.15-15.00
Dolly Jørgensen, University of Umeå: "Naturalizing offshore oil technology in Gulf of Mexico aquarium exhibits"

MONDAY 5 MARCH, 13.15-14.30
Daniel Svensson, Division of History of Science and Technology, KTH: "'Rationell träning'. Vetenskapliggörandet av träning för längdskidåkning"

MONDAY 19 MARCH, 13.15-15.00
Anders Houltz, Division of History of Science and Technology, KTH: "Den stora skalan: Volvo Torslandaverken och massproduktion som mål och mening i 1960-talets Sverige"

FRIDAY 20 APRIL, 13.15-15.00
Bron Taylor, University of Florida, USA / Rachel Carson Center Munich, Germany: "Spirituality After Darwin: On the globalization of nature spirituality and the possibility of Terrapolitan Earth Religion contributing to resilience and environmental sustainability"

MONDAY 23 APRIL, 14.15-16.00
Andrew Jamison, Department of Development and Planning, Aalborg University, Denmark: "Fostering Hybridity: Integrating Contextual Knowledge into Engineering Education"

MONDAY 7 MAY, 13.15-15.00
Jo Guldi, Harvard University, Boston: "Roads to Power: Britain Invents the Infrastructure State"

MONDAY 14 MAY, 13.15-15.00
Jens Lachmund, University of Maastricht, The Netherlands
"City and Nature. The Case of Berlin"

MONDAY 18 JUNE, 13.15-15.00
Anna Åberg, Division of History of Science and Technology, KTH
"To connect or not to connect? On relative risk, transnational trust and the dilemma of the Swedish natural gas grid" (Slutseminarium i forskarutbildningen)

Autumn 2012

MONDAY 3 SEPTEMBER, 13:15-14:45
Karim Jebari, Division of Philosophy of Science, KTH
"Reducing Existential Risk: Two Diversification Strategies"

MONDAY 17 SEPTEMBER, 13:15-14:45
Tom Griffiths, School of History, Centre for Environmental History, Australian National University
"A centennial pilgrimage. Commemorating the Australasian Antarctic Expedition of 1911-14"

MONDAY 24 SEPTEMBER, 13:15-14:45
Lawrence Buell, Department of English, Harvard University
"Dissonant Geographies of Earthcare. Rethinking the Ethics and Aesthetics of Sustainability: Personal, Individual, National, Global"

MONDAY 1 OCTOBER, 13:15-14:45
Mahesh Rangarajan, Nehru Memorial Museum and Library, New Delhi: "Democracy, Development and Ecology: Dilemmas and Choices in 21st Century India"

MONDAY 15 OCTOBER, 13:15-14:45
Taran Thune, Center for Technology, Innovation and Culture, University of Oslo, and Nordic Institute for Studies in Innovation, Research and Higher Education: "Exploring the dynamics of collaboration: an investigation of research and innovation alliances between firms and public research organisations in Norway"

MONDAY 22 OCTOBER, 13:15-14:45
Janet Abbate, Department of Science and Technology in Society, Virginia Tech: "The Place of Computer Science Among the Sciences"

TUESDAY 23 OCTOBER, 13:15-14:45 (IN CO-operation with KTH's ECE-School)
Amy Slaton, Department of History and Politics, Drexel University: "Diversity, Social Justice, and Humanistic Reform in American Engineering Education: A Challenging History"

MONDAY 12 NOVEMBER, 13:15-14:45
Sharon Traweek, UCLA Gender Studies & History Departments: "Meshworks and Faultlines in Data Practices"

MONDAY 26 NOVEMBER, 13:15-14:45
Jesper Meijling, Division of History of Science, Technology and Environment, KTH: "Constructing the Market – Marknaden som byggd teori: Stilbrytningar mellan ekonomiskt och rumsligt tänkande: en skiss" (mittseminarium i forskarutbildningen)

FRIDAY 30 NOVEMBER, 13:15
Ingemar Pettersson, Division of History of Science, Technology and Environment, KTH: "Handslaget: Svensk industriell forskningspolitik 1940-1980". Doctoral thesis defense

FRIDAY 14 DECEMBER, 10:00-12:00
Martin Emanuel, Division of History of Science, Technology and Environment, KTH: "Trafikslag på undantag: Cykeltrafiken i Stockholm 1930-1980". Doctoral thesis defense

Spring 2013

MONDAY 21 JANUARY, 13:15-14:45
Anna Storm, Södertörns Högskola: "Ignalina. A closed down nuclear power plant and its heritage potential"

MONDAY 4 FEBRUARY, 13:15-14:45
Tom McGovern, CUNY: "Long Term Human Ecodynamics in the North Atlantic: Cases of Sustainability and Extinction"

MONDAY 18 FEBRUARY, 13:15-14:45
Francesca Bray, The University of Edinburgh: "Technology, gender and history: the case of imperial China"

MONDAY 4 MARCH, 13:15-14:45
Olof Hallonsten, University of Gothenburg, Department of Philosophy, Linguistics and Theory of Science: "Big science in the knowledge society"

MONDAY 18 MARCH, 13:15-14:45
Peder Roberts, Division of History of Science, Technology and Environment, KTH: "Bathyscaphes and Big Science: Observers, Remote

Sensing, and Deep Sea Exploration 1945-1960"

TUESDAY 16 APRIL, 13:00-17:00
Petra Bauer, University College of Arts, Crafts and Design, Stockholm/Division of History of Science, Technology and Environment, KTH: "Film som politisk handling – om rörliga bilder, estetiska strategier och politiska projekt".
Licentiate thesis defense

MONDAY 22 APRIL, 13:15-14:45
Arne Kaijser, Division of History of Science, Technology and Environment, KTH: "The Logistics of War: Infrastructure and military system-building in Europe"

MONDAY 29 APRIL, 13:15-14:45
Miyase Christensen, Division of History of Science, Technology and Environment, KTH: "Media and Arctic Climate Change"

MONDAY 13 MAY, 13:15-14:45
Per Axelsson, Centre for Sami Research, Umeå University: "Erosion of ethnic enumeration – Swedish official statistics of the Sami population after World War II"

MONDAY 27 MAY, 13:15-14:45
Lize-Marié van der Watt, International Project Office ISAC International Study of Arctic Change, Stockholm: "Science, wilderness and the killer cats of Marion Island, 1972-1995"

FRIDAY 31 MAY, 13:15
Anna Åberg, Division of History of Science, Technology and Environment, KTH: "A Gap in the Grid: Natural Gas in Sweden, 1967-1991".
Doctoral thesis defense

Autumn 2013

FRIDAY 6 SEPTEMBER, 13:15-15:15
Isabel Perez and Anna Svensson, Division of History of Science, Technology and Environment, KTH.

MONDAY 9 SEPTEMBER, 13:15-14:45
Mikael Hård, Department of History, Darmstadt University of Technology: "Consumers, Tinkerers, Rebels: The People Who Shaped Europe"

THURSDAY 19 SEPTEMBER, BROWNBAG
Lunch Seminar, 12:00-13:00
Alison Pouliot, Fenner School of Environment & Society, ANU: "Black Diamonds and Witches' Rings: The influence of perceptions of fungi on biodiversity conservation"

MONDAY 23 SEPTEMBER, 13:15-15:15
Johan Gärdebo and Hanna Vikström, Division of History of Science, Technology and Environment, KTH.

TUESDAY 24 SEPTEMBER,
Olof Hallonsten, recipient of the postdoctoral scholarship of the Physicist PhD Ragnar Holm foundation, "History, sociology, and contemporary Big Science." Ragnar Holm-lecture

MONDAY 7 OCTOBER, 13:15-14:45
David Nilsson, Division of History of Science, Technology and Environment at KTH: "Lost Colonialism: Sweden-Norway at the Berlin Conference 1884-1885".

MONDAY 21 OCTOBER, 13:15-14:45
Mats Fridlund, History of Industrialization Research Group, Department of Engineering Design and Production, Aalto University: "Digitizing the historian's craft? Topic modeling and the new digital history".

MONDAY 4 NOVEMBER, 13:15-14:45
Kirsten Thisted, Department of Cross-Cultural and Regional Studies, University of Copenhagen: "Imperial ghosts in the North Atlantic – old and new narratives about the colonial relations between Denmark and Greenland"

MONDAY 18 NOVEMBER, 13:15-14:45
Marco Armiero, Division of History of Science, Technology and Environment at KTH: "Escaping the Green Box: Environmental History, Nation and the Politics of Nature"

MONDAY 2 DECEMBER, 13:15-14:45
Anders Gullberg, Stockholmsforskningen / Division of History of Science, Technology and Environment at KTH: "City traffic in the time of the third industrial revolution"

MONDAY 16 DECEMBER, 13:15-14:45
Lena Christensen, LUCSUS, Lund University Centre for Sustainability Studies: "Be(e)wilderness in the Anthropocene: Bees, Books and the Biosphere"

Spring 2014

FRIDAY, 10 JANUARY, 10:15-11:45
Edmund Russell, Hall Distinguished Professor of US History, University of Kansas: "Fast Dogs and Englishmen: The Coevolution of Greyhounds, Lurcher, and Whippets with Aristocrats, Middle Classes, and Workers in England,

1500-1900". Special Term Opening Seminar

MONDAY 13 JANUARY, 13:15-14:45
Anna Westerståhl Stenport, Scandinavian Studies, Germanic Studies and Literatures, University of Illinois at Urbana-Champaign: "What are Arctic Cinemas?"

MONDAY 20 JANUARY, 13:15-14:45
Corinna de Guttry, Department of Human Dimensions of Coastal Areas, Institute of Coastal Research – Helmholtz-Zentrum Geesthacht, Germany: "Aliens in paradise: how migrants might become scapegoats of environmental destruction" (co-authored with Marco Armiero)

MONDAY 27 JANUARY, 13:15-14:45
Donald Worster, Honorary director, Center for Ecological History, Renmin University, China: "Second Earth: Thinking About Environmental History on a Planetary Scale"

MONDAY 17 FEBRUARY, 13:15-15:00
Eric Paglia, Division of History of Science, Technology and Environment, KTH: "Constructing Crisis: the Political Performance of Science and Assessing Environmental Limits in the Anthropocene" (mittseminarium i forskarutbildningen). Commentator: Matthias Heymann, University of Aarhus

MONDAY 3 MARCH, 13:15-14:45
Alesia Zuccala, Centre for Digital Humanities, University of Amsterdam: "Digital Humanities – Books, Publishers and Digital Transformations"

MONDAY 17 MARCH, 13:15-14:45
Andrea Westermann, Department of History, University of Zürich: "Inventories of the earth. Mineral resource appraisals and the establishment of resource economics"

MONDAY 24 MARCH, 10:30-12:00
James R. Fleming, Colby College: "In Transit: From Meteorology to Atmospheric Science, 1900-1960"

MONDAY 31 MARCH, 13:15-14:45
Lars Heide, Copenhagen Business School: "Conceptualizing Innovations: John William Mauchly and John Prosper Eckert's innovation of computers 1942-1950"

MONDAY 14 APRIL, 10:00-12:00
Carlos Cano Viktorsson, CESC Center for Sustainable Communications / Division of History of Science, Technology and Environment,

KTH: "From Vision to Transition: Exploring the Potential for Public Information Services to Facilitate Sustainable Urban Transport". Licentiate thesis defense

MONDAY 14 APRIL, 13:15-14:45

Gunnel Cederlöf, University of Uppsala / Division of History of Science, Technology and Environment, KTH: "Founding an Empire on India's Northeastern Frontiers, 1790-1840: Climate, Commerce and Polity"

MONDAY 12 MAY, 13:15-14:45

Sarah Bouttier, Department of English, University of Stockholm: "Writing the Nonhuman: Studies in XXth Century Poetry"

MONDAY 26 MAY, 13:15-14:45

Lynn Keller, Department of English, University of Wisconsin-Madison / University of Stockholm: "Making Art 'Under These Apo-Calypso Rays': Contemporary American Eco-poetics and Apocalyptic Discourse"

MONDAY 9 JUNE, 13:15-15:00

Daniel Svensson, Division of History of Science, Technology and Environment, KTH: "Rational training. Scientification of training methods in cross-country skiing" (mittseminarium i forskarutbildningen). Commentator: Dick Kasperowski, Division of Theory of Science, Gothenburg University.

Autumn 2014

MONDAY 8 SEPTEMBER, 13:15-14:45

Kati Lindström, Division of History of Science, Technology and Environment, KTH: "Landscape representations, nationalism and environmental protection policies in Japan"

MONDAY 22 SEPTEMBER, 13:15-14:45

Roberta Biasillo, University of Bari: "Reframing forest for a new state: the Italian case"

MONDAY 6 OCTOBER, 13:15-14:45

Thom van Dooren, University of New South Wales: "Banking the Forest: Loss, Hope and Care in Hawaiian Conservation"

MONDAY 20 OCTOBER, 13:15-14:45

Jan Romgard, Stockholm University: "From 'Kina-Gunnar' to 'The Travelling University': Swedish geosciences in Republican China 1914 to 1935"

THURSDAY 30 OCTOBER, 13:15-16:00

Gunnel Cederlöf, Division of History of Sci-

ence, Technology and Environment, KTH, and researchers from the Linnaeus University, Växjö: "Colonial Railways, Danish-English Entrepreneurs, and Swedish Iron: The Stephens Archive at the Linnaeus University"

Presentation of three studies, based on documents from the Huseby Archives in Växjö: Alexander Bubb, "Class, Cotton and Wod-daries: the Business Networks of Railway Contractors in the Bombay Presidency, 1855-70" Ingemar Gunnarsson, "A Scandinavian railway contractor in India 1860-1869: conflicts and entrepreneurship in a colonial context" Margareta Petersson, "Concurrent domesticities in letters from the colonial fringe".
Panel Discussion

MONDAY 3 NOVEMBER, 13:15-14:45

Poul Holm, Trinity College Dublin: "Deep Harvests. Fisheries, Food Cultures, Ecosystems and Human Societies"

MONDAY 24 NOVEMBER, 13:15-14:45

Libby Robin, Fenner School of Environment and Society, Australian National University / Division of History of Science, Technology and Environment, KTH: "Curating the Future: Museums, Communities and Climate Change"

MONDAY 1 DECEMBER, 13:15-14:45

Dorothy Zeisler-Vralsted, Eastern Washington University: "Backwater Blues – The Production of Mississippi River Flood Narratives"

MONDAY 15 DECEMBER, 13:15-14:45

Per Högselius, Division of History of Science, Technology and Environment, KTH: "Nuclear Disasters Wet and Dry"

APPENDIX: ARCHIPELAGO LECTURES

IN 2012, THE Environmental Humanities Laboratory initiated the annual Stockholm Archipelago Lecture series. David Lowenthal, Professor Emeritus of geography and Honorary Research Fellow at University College London, gave the inaugural lecture on 19 September. The lecture was titled “Reflections on the Environmental Humanities – What Can They Contribute to the Challenges of Our Time?” In conjunction with the lecture, Lowenthal also gave a series of more informal presentations at the Division.

ON 11 SEPTEMBER the following year, Kirsten Hastrup, Professor of Anthropology at the University of Copenhagen, presented the second Archipelago lecture, titled “Life on the Edge: The Meltdown of a High Arctic Hunting Community.”

THE THIRD ARCHIPELAGO lecture was held in 2014 by Laura Pulido, Professor of American Studies and Ethnicity at University of Southern California. This time the focus was on environmental justice, and the lecture, presented 9 October, was titled “Environmental Racism as State-Sanctioned Racial Violence.”



└ Laura Pulido.

APPENDIX: RESEARCH PROJECTS

Mistra Arctic Sustainable Development

THE PROGRAM AIMS to develop a nuanced understanding of local and subnational governance challenges in the European Arctic, with the aim to increase the capacity of local and regional decision makers to make informed decisions related to sustainable development. The program focuses on seven economic (and governance) sectors: mining, forestry, oil- and gas, fisheries, tourism, reindeer husbandry and municipal planning. A central research task is to investigate how laws and regulations for resource exploitation has been constructed and changed over time and why, as well as how Arctic communities have responded to those changes and to new extractive industries.

PROJECT LEADER: Carina Keskitalo (Umeå University)

PARTICIPANTS AT THE DIVISION: Dag Avango, Sverker Sörlin, Peder Roberts, Nina Wormbs, Sabine Höhler, Daniel Svensson, Jan Kunnas, Corinna Röver

FUNDING AGENCY: Stiftelsen för miljöstrategisk forskning (Mistra)

DURATION: 2014-2017

Sustainable Community Development and the Legacies of Mining in the Nordic Arctic

THIS PROJECT EXPLORES the legacies of mining in Arctic mining communities in the Nordic countries. The project is focused on field research and is linked to the Mistra Sustainable Development program. The point of departure for the project is the interest and importance of mining to communities in the Arctic. The promise of improved incomes, employment opportunities, and living standards is balanced against concerns related to social and ecological disruption. Such debates are centrally concerned with legacies: what effects will mining have on societies and local environments, and what effects will persist even after the end of operations? This project examines three communities in which mining was (and in some cases still is) the dominant industry - Kiruna in Sweden, Qullissat in Greenland, and Pyramiden and Longyearbyen in Svalbard - to better understand the social and cultural as well as the economic and environmental legacies of mining in Arctic regions of Norden. By providing new insights into how Arctic communities interpret and use the material and immaterial heritage of mining, the study will contribute to current debates within research and policy on how to achieve sustainable resource utilization and economic development in the Arctic. The project will thus provide an important contribution to understanding how communities can remain economically and socially sustainable at the local level, and a counterweight to macro-level considerations of how mining revenues will affect national-level economies.

PROJECT LEADER: Dag Avango

PARTICIPANTS AT THE DIVISION: Dag Avango, Peder Roberts, Hanna Vikström,
Anna Åberg

FUNDING AGENCY: Nordregio

DURATION: 2014-2016

Towards 'just sustainability' - Grassroots initiatives to merge social and environmental justice

IN THE FACE of multiple and overlapping global crises, demonstrated by an intricate blending of socio-ecological problems, JUSTAINABILITY focuses on grassroots organizations and local communities worldwide, who resist contamination, expropriation, and exploitation while experimenting with alternative sustainabilities. Those experiences have contributed to an accumulation of transformative knowledge that allows us to understand and react to the multiple crises in different ways. Strengthened both with academic and practitioner partners in 8 countries (Brazil, India, Italy, Portugal, Spain, South Africa, Sweden and Turkey), JUSTAINABILITY aims (a) to recover and understand the envisioned alternative sustainabilites, (b) to catalyze the interaction of their proponents, and (c) to legitimize and incorporate grassroots knowledge and experiences in the collective search for transformations to sustainability.

PROJECT LEADER: Marco Armiero

PARTICIPANTS AT THE DIVISION: Marco Armiero, Sverker Sörlin, Susanna Lidström

FUNDING AGENCY: International Social Science Council

DURATION: 2014-2015 (seed grant)

A cultural heritage of movements in the north of Sweden

THE SWEDISH MOUNTAIN landscape has great significance, culturally, ecologically and economically. It is also a major cultural and natural heritage. This project will underline the importance of movement in understanding the mountain landscape. The Swedish mountain range is a landscape of movement. It has been shaped by Sami life for centuries, but also through hunting, fishing, outdoor life, tourism, sports, science. The movement heritage, in terms of paths, skiing tracks, hiking trails etc. has shaped the understanding of the mountain landscape. The project will investigate how these landscapes of movement can contribute to a sustainable development in the mountain landscape.

PROJECT LEADER: Sverker Sörlin

PARTICIPANTS AT THE DIVISION: Sverker Sörlin, Daniel Svensson

FUNDING AGENCY: Naturvårdsverket, Riksantikvarieämbetet

DURATION: 2014

Nations and Nationalisms: Japanese Perspectives

THE POST-DOCTORAL RESEARCH project analyses the use of ecological notions and environmental imagery in nationalist discourse and its impact on protection and management policies. While protection policies appeal to scientific principles and are often grounded on ecological reasoning, they can nevertheless be easily engaged into a political and national agenda because of the ahistoric nature of systemic descriptions. The present project takes three areas of cultural and natural heritage in Central and North-Western Japan (historical Ohmi, Hida and Fukushima areas in today's Shiga, Toyama and Fukushima prefectures) as a case study and analyses how the ecological notion of sustainability in the traditional agrarian landscapes gets involved in modern Japanese nationalism. The case studies represent the cradle of Japanese rice agribusiness and the focus of pictorial representations of the satoyama ecosystems (Shiga prefecture) on the one hand, and on the other, the mountainous Toyama areas where up to the end of 19th century the economy was based on swidden millet agriculture combined with silk and gunpowder contraband. These two locations that host some emblematic rural heritage sites are compared to the discourse on industrial heritage and Fukushima agriculture, in the light of March 11, 2011 tsunami and nuclear catastrophe. It discusses how nature-based nationalism has emerged during the nation-building process and how natural, cultural and industrial heritage management links to it.

PROJECT LEADER: Kati Lindström

FUNDING AGENCY: Wenner-Gren Stiftelserna

DURATION: 2014

Universities and collaboration - a twenty year perspective

THE PROJECT IS intended to analyze patterns of collaboration within and beyond Swedish universities in the last decades. A central goal is to highlight how processes of change in funding, governance and steering have affected interactive patterns.

PROJECT LEADERS AND PARTICIPANTS: Mats Benner and Sverker Sörlin

FUNDING AGENCY: Vinnova

DURATION: 2014

Science and Modernizaion in Sweden, An institutional approach to historicizing the knowledge society

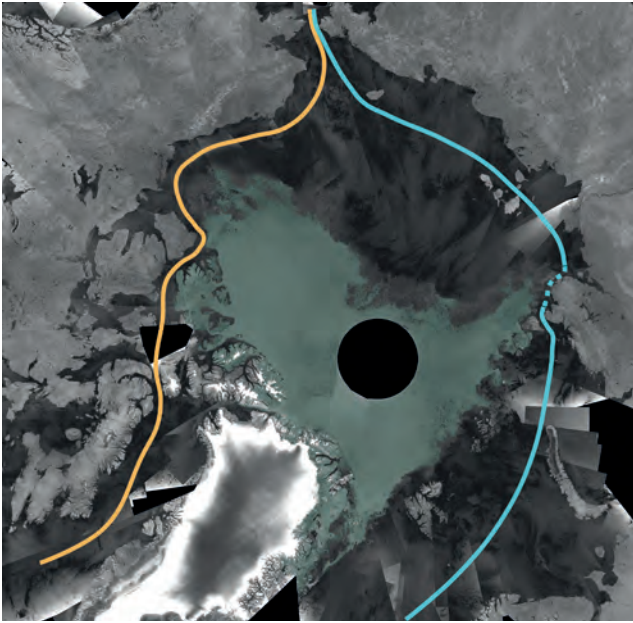
SMS-PROGRAMMET ÄR SAMORDNAT av Centrum för vetenskapshistoria vid Kungliga Vetenskapsakademien (KVA). Programmet kan följas på bloggen Vetenskapshistoria.

PARTICIPANTS AT THE DIVISION: Katarina Larsen, Sverker Sörlin, Nina Wormbs

FUNDING AGENCY: Marianne och Marcus Wallenbergs Stiftelse

DURATION: 2013-2017

Views from a Distance: Remote Sensing Technologies and the Perception of the Earth



↳ Satellite mosaic of sea ice minimum 2007. ESA.

THIS IS A project about viewing Earth from a distance. Both the views from remote observation points and the resulting images are extraordinary. Since the 1960s we have been presented with awe-inspiring pictures of the entire globe taken from space. We tend to overlook, however, that elaborate sensing technology often mediates the long distances between the observer and the image. These distances are geographical as well as epistemic: Remote sensing technology does not ‘see’ but perceive the Earth in com-

plexed ways. The resulting images convey the coherence and completeness of photographic pictures but they only emerge through intricate processes of translating large sets of discrete data into consistent visual formats. The processes of generating, aggregating and translating data points into a visual whole are imbued with the ambitions, interpretations and applications of different actors in international and transnational settings. This project aims to disaggregate the Earth imagery of land-masses, ice, and seascapes. By analyzing the decisions, methods, money and technologies which enter the assembling of such imagery we hope to explore and explain the political and social conditions of translating situated observations into global images, and also to elucidate their global consequences.

PROJECT LEADER: Nina Wormbs

PARTICIPANTS AT THE DIVISION: Nina Wormbs, Sabine Höhler, Johan Gärdebo

FUNDING AGENCY: Swedish Research Council

DURATION: 2013-2015

History of Norwegian Polar Politics

THE RESEARCH PROJECT “Norsk polarpolitikk 1870–2014” explores Norwegian polar politics in both theory and practice from the end of the 19th century to 2014. The project will provide a comprehensive and methodologically sophisticated view of the topic area, resulting in a book written collectively by the project members. Although Norway remains the central focus, a key goal is to locate Norwegian politics within

the broader international context, not least given the importance of the Arctic to international affairs in the present.

PROJECT LEADER: Einar-Arne Drivenes (University of Tromsø/Norway's Arctic University)

PARTICIPANTS AT THE DIVISION: Peder Roberts

FUNDING AGENCY: Norwegian Foreign Ministry (main), Norwegian Research Council (contributing)

DURATION: 2013-2015

Sweden and the Origins of Global Resource Colonialism: Exploring a Small Country 's Natural Resource Interests in Africa, Caucasia and the Arctic, 1870-1930



THIS PROJECT INVESTIGATES the role of Swedish actors in the emergence of global resource colonialism in the period 1870-1930, focusing on three colonial arenas where both the Swedish government and private Swedish companies have been active - the Arctic, Africa and the Caucasus. During this period Europe became an industrial center and several European states took colonies in Africa and Asia in order to gain access to natural resources and export markets. Sweden had no such colonies, but gained access to resources and markets in other ways. The project aims to investigate how Swedish actors acted in this context and why. We believe that some of the main characteristics of the Swedish way of interacting with other players in terms of global resources were established during this period.

PROJECT LEADER: Per Högselius

PARTICIPANTS AT THE DIVISION: Dag Avango, Per Högselius, David Nilsson, Hanna Vikström

FUNDING AGENCY: Swedish Research Council

DURATION: 2013-2015

Sustaining Future Urban Natures: Interdisciplinary Engagements with Contested Urban Ecologies

WITH INCREASED URBANISATION and notions of an ecological crisis, there has been a wide interest in urban 'green spaces', portrayed as increasingly important for human well-being and as 'green infrastructure' to enhance the quality of life in cities. Green spaces serve a multitude of functions in cities world wide and they are one of the most common features of cities, although they are often challenged by demands for space, growth, development projects, or planning ideas which from time to time have argued against urban greens. In this collaboration between two highly qualified but quite different integrated education-and-research environments in the Global North and the Global South respectively we will comparatively explore trajectories of value formation around green spaces in urban regions, so far primarily in Scandinavia and in South Africa but with outlooks to the rest of the world. We are especially interested in the multitude of approaches taken to use, care for, and protect - all in all: sustain - green spaces in cities and the many different practices that are deployed in this work. The overall aim of the initiation project is to build a collaboration including exchange of PhD students, faculty and collaborative teaching based on research.

PROJECT LEADER: Sverker Sörlin

PARTICIPANTS AT THE DIVISION: Sverker Sörlin, Henrik Ernstson,
Susanna Lidström, Isabel Perez

FUNDING AGENCY: STINT

DURATION: 2013-2014

Institute for Advanced Study, Princeton

VISIT TO INSTITUTE for Advanced Study at Princeton the academic year 2013-2014, as fellow at the School of Social Sciences and participant in the programme "The Environmental Turn and the Human Sciences". The programme closely connects to efforts in research and education in environmental humanities undertaken around the world to address so called grand societal challenges, where environment and climate are of central importance. The Division of History at KTH is an active and leading participant in these efforts, especially through the newly formed KTH Environmental Humanities Laboratory.

PROJECT LEADER: Sverker Sörlin

FUNDING AGENCY: Riksbankens Jubileumsfond

DURATION: 2013-2014

KTH Environmental Humanities Laboratory

THE KTH EHL was founded in 2011 as a cross-cutting unit of the Division of History of Science, Technology and Environment at KTH as part of long term efforts in the Division to foster the Environmental Humanities. The immediate reason for its found-

ing was a generous donation from industrialist Carl Bennet which was matched by internal KTH funds. The KTH EHL has developed well under its initial phase and has already achieved a high visibility. It can also be seen as the humanities element of the recent campus-wide KTH Sustainability Initiative, KTH-S. The work in the KTH EHL is built on the extensive research developed in the Division in the last two decades especially in the fields of history of technology, science, and energy, and in Science and Technology Studies. Those areas stay still at the core of the KTH EHL which has also expanded in other directions such as environmental history, eco-criticism, and political ecology.

Cosmopolitanism from the Margins: Mediations of Expressivity, Social Space and Cultural Citizenship

THERE HAS BEEN a return to cosmopolitanism both in cultural studies and political science to account for a variety of developments and phenomena from multiculturalism and marginal communities to global social movements and environmental crisis. In its late-modern sense and in the urban West, cultural cosmopolitanism implies an openness toward the Other and ethically oriented self-reflexivity articulated as boundary-crossing and questioning of dominant moral/aesthetic categories of classification. Yet, both our actual and mediated social spaces of living and of 'being' remain highly segregated, with certain norms and ideals occupying the centre while Others are being pushed to the periphery and marginality. In order to reconcile embodied articulations of morally/ideologically progressive acts with the realm of cultural citizenship and cosmopolitanism, our purpose is to extend the cosmopolitan debate and the question of social change to a lesser-scrutinized area, to the margins (and the marginals) of Cosmopolis by studying three groups of expressivity: a) urban explorations; b) street art; and, c) groups who engage with non-commercial sexual expressivity. What binds these three categories together in this project is 1) an understanding of identity formation and expression as spatially defined communicative processes and, 2) the performative and embodied character of such expressive identities.

PROJECT LEADER: Miyase Christensen

FUNDING AGENCY: Swedish Research Council

DURATION: 2012-2015

The Geopolitics of Energy: Swedish International Dependencies in a Historical Perspective

THE OVERALL PURPOSE of this project is thus to study Sweden's foreign dependencies in the energy field in the 20th century. Specifically, we will analyze how public and private actors perceived these dependencies at different points in time, and what kind of strategies and policies they pursued to decrease the vulnerabilities. A central hypothesis that will be tested in the project is that, in terms of the above themes, it is



↳ Soviet pipeline stamp (1983). Source: Wikimedia Commons.

possible to identify a distinct but evolving ‘Swedish model’ in attempts to deal with vulnerabilities stemming from energy import dependence. The project is highly interdisciplinary, and focus not only on energy but also other components of system: information, key stakeholders and the interdependencies of these. We are engaged in the project are social scientists, and we have a distinct historical approach, but we also have a double competence as engineers.

PROJECT LEADER: Arne Kaijser

PARTICIPANTS AT THE DIVISION: Maja Fjaestad, Per Högselius, Anna Åberg

FUNDING AGENCY: Swedish Research Council

DURATION: 2012-2014

Innovation Systems of Wind Power in Denmark and Sweden: Close but Different

WIND POWER TECHNOLOGY has attracted a number of studies in social science the latest years, however, the contemporary history of wind power has is not a well studied topic among historians. On a political level, the rising awareness about climate change has lead to an increased interest for sustainable technology. In addition, a growing number of countries have put attention to the possibilities of making sustainable technology into as large growth and export sector. But, as has been pointed out, Sweden is not a fore-runner in this case. The role of ideological movements in these processes is interesting. In Denmark, for example, the environmental movement have been initializing wind-power farms, whereas the environmental movement in Sweden often has perceived wind-power as a threat to wild-life and fauna, thus resisting them. The purpose of this project is to investigate the role of resistance within the innovation system of wind power in Sweden, focusing on the “pre-history” – in this case perceived as the 1980s. How has the environmental

movement interacted with other movements on the issue? What have the perceived risks been? What about local stakeholders? The aim is to develop a deeper understanding of situated experiences of risk and resistance in one of the key sustainable technologies of today.

PARTICIPANTS AT THE DIVISION: Maja Fjaestad

FUNDING AGENCY: J. Gust. Richert stiftelse

DURATION: 2012

Rational training. Scientific methods of exercise in cross country skiing

THIS PROJECT WILL investigate the history of cross country skiing training, mainly in Sweden, during the period 1940-1970. Meetings and conflicts between experiential and scientific knowledge in cross country skiing will be in focus. The aim is to study the ways in which scientific training methods have been created and motivated and what impact these methods have had among the athletes and coaches in elite cross country skiing. Today, the role of science in athletic exercise and performance is obvious. However, this has not always been the case and there is still a lively debate about scientific training methods within the cross country skiing society. One of the main centers for physiological research about exercise has been the Royal Central Institute of Gymnastics (GCI) in Stockholm. GCI have made important and globally recognized contributions to physiology. Some of these results have been important for sports, not least cross country skiing. Within the project we will try to answer the following questions: when, where and how were scientific training methods introduced? What purpose did the researchers have to pursue this direction of research? How did the scientific results affect the practice of elite cross country skiers and coaches? How did scientists and practitioners follow up and secure the results of scientific training?

PROJECT LEADER: Sverker Sörlin

PARTICIPANTS AT THE DIVISION: Daniel Svensson

FUNDING AGENCY: Swedish National Centre for Research in Sports

DURATION: 2011-2016

Assessing Arctic Futures: Voices, Resources and Governance

THE DEBATE ABOUT the future of the Arctic is currently heated, but not for the first time. Descriptions of the future of the Arctic – often enthusiastic but at times foreboding – were formulated during the entire 20th Century. The questions raised in this project explore the people behind these descriptions, how the descriptions were formulated, against a background of contemporary political, economic, scientific and ideological contexts, and how they were heard. We are interested in the multitude of voices in the continuous production of Arctic futures. Who's interest had the most influence during different historical periods, and what can different people mean

by “positive” development in the Arctic? What were the processes by which certain voices were heard and others not? And what can we learn from that in looking at the production of Arctic futures today? By trying to apply methods from for example technology assessment we hope to develop tools with which proposed Arctic futures can be assessed before hand and thereby offering the decision makers a more comprehensive understanding of the consequences of paths to be taken. The project is carried out in collaboration with the European University at St. Petersburg and the Stockholm Environment Institute.

PROJECT LEADER: Sverker Sörlin

PARTICIPANTS AT THE DIVISION: Sverker Sörlin, Nina Wormbs, Dag Avango, Peder Roberts, Sabine Höhler and Eric Paglia

FUNDING AGENCY: Mistra

DURATION: 2011-2013

The Infrastructural Transformation of Europe, 1850-2000



↳ Logistics of War: Prussian troops boarding train in 1866.

SINCE THE MID-19TH century, Europe has gradually been covered by a wide range of overlapping infrastructure systems, most notably for transport, communication, and energy. Jointly these produced an artificial (i.e. human-made) geography of networks, which surpassed the natural geography of Europe. This project will result in a book, which by studying this transformation process will present a novel, alternative and challenging view of European history. The project will have an unusual character. It will take the form of a major synthesizing effort relying on the outcomes of ten years of European research cooperation in the field of history of technology. Through this earlier research we have assembled a unique material. The research will combine a system perspective from the history of technology with transnational and European history, taking inspiration from the Annales-schools emphasis on a comprehensive approach and the “longes durée”. The project will investigate the shaping of a European geography of networks and also how the flows through these networks have transformed production systems, warfare and migration patterns and how they have produced a spatial restructuring of Europe affecting not only landscapes but also ‘waterscapes’ and ‘airscales’.

PROJECT LEADERS: Arne Kaijser and Per Högselius

FUNDING AGENCY: Riksbankens Jubileumsfond

DURATION: 2011-2013

Markets, Spatial Order, and Sustainable Urban Futures: Porti franchi and the spatial history of the market

THE PURPOSE OF this project is to analyse the market as an integrated dimension of urban planning and design - the market as a market place: its spatial order and relation to planning. The research will be chiefly historical and will focus on the free market towns, the porti franchi, starting in Italy in the 17th and 18th centuries. The study will thus concentrate on beginnings. Comparisons will be made with current urban design where marketization is again a structuring factor with uncertain consequences for sustainable urban futures. The early spatial organization of the market place will thus speak to the present, and vice versa. The porti franchi appear like a series of “innovative milieux”, with distinct common traits, scattered across Europe in the 17th and 18th centuries. The study will uncover the spatial programming of the market place by means of studying what could be defined as its constitution (its legal and political design) and its situation (the resulting physical design object), both in relation to what is here termed spatial planning technologies. Understanding the spatial “subtext” or “grammar” of the capitalist market should be useful for the planning and management of new market situations (“market solutions”) in defined areas and built spaces, a recurrent case in an increasing number of public sector structures today (public buildings, suburban shopping centres, hospital areas etc) with grave risks of becoming obstacles to sustainability.

PROJECT LEADER: Sverker Sörlin

PROJECT PARTICIPANTS AT THE DIVISION: Sverker Sörlin, Jesper Meijling

FUNDING AGENCY: Formas

DURATION: 2010-2015

CyCity: From car-centric to cycle-centric cities

CYCITY IS A Swedish research programme with the general purpose of improving our knowledge about cycle planning processes and to increase our understanding of cycle users' preferences. The project draws expertise from transport and cycle planning, transport modelling, health and physical activity, history, behaviour change and psychology, traffic safety, operation and maintenance of bicycle networks.

PROJECT LEADER: Arne Kaijser

PARTICIPANTS AT THE DIVISION: Martin Emanuel

FUNDING AGENCY: VINNOVA

DURATION: 2010-2013.

TRACS

THE DEVELOPMENT OF information and communication technologies (ICT) radically increases possibilities to coordinate traffic. How can this knowledge be used to design advanced integrated travel planners that provide both efficient decision support for travelers and a tool for local and regional planning for sustainable development? The project

TRACS intends to describe how such travel planners can work, what they include and what is needed for widespread adoption. An integrated travel planner provides information on walking, bike routes, public transport, car rides, parking, goods transport, taxi, mobility and delivery services, and eventually even booking and payment services. Travel planners in mobile devices may be a first step towards the development of advanced and efficient travel and transport services for companies and private users. The project has a specific interest in how mobile applications can optimize urban traffic and land use so that sustainable travel such as public transport, walking and biking benefits.

PROJECT LEADERS: Mattias Höjer, Anna Kramers (assistant project leader)

PARTICIPANTS AT THE DIVISION: Anders Gullberg, Arne Kaijser, Carlos Viktorsson

PARTNERS: Ericsson, Institute for Futures Studies, Office of Regional Planning (Stockholm County Council), City of Stockholm, Swedish Transport Administration and trafikenu.

DURATION: 2010-2013.

Models, Media, and Arctic Climate Change: Understanding the Interface between Sustainability Policies and Modelling of Climate and Ecosystems

THE OBJECTIVE OF the project is to understand the influence of modeling of climate on policy making for sustainable development, with an emphasis on the Arctic. Understanding anthropogenic climate change rests largely on models. Models have thereby become a crucial condition for sustainability. Although models have been shown to play an important role in science-policy communication in other fields of environmental governance, climate models are conspicuously under-researched. We will study modeling with a regional focus (the Arctic), paying particular attention to the increased interaction of climate modeling of relevance for sustainability, and to the role of local indigenous knowledge. We intend to observe the full social “chain of production” of modeling, from the primary production of data in the field, to the production of models and across to their dissemination and reception in the media and policy. How do models work? How do they “travel” – from the field to the media, the government office or the corporate board room? How do they go down with public understanding and engagement? How do they function as boundary-ordering devices between science and policy? Who “owns” models, and how are issues of credibility, salience and legitimacy handled? The latter has been shown to be crucial for environmental policy success.

PROJECT LEADER (KTH): Sverker Sörlin

PARTICIPANTS AT THE DIVISION: Sverker Sörlin, Nina Wormbs, Miyase Christensen and Maria Bohn

FUNDING AGENCY: Formas, The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning

DURATION: 2009-2012

APPENDIX: PUBLICATIONS 2012-14

- Albert de la Bruheze, A. A., and EMANUEL, M. "European bicycling: The politics of low and high culture: Taming and framing cycling in twentieth-century Europe." *Journal of Transport History* 33, no. 1 (2012): 64-66.
- Anderson, P. M., Avlonitis, G., and ERNSTSON, H. "Ecological outcomes of civic and expert-led urban greening projects using indigenous plant species in Cape Town, South Africa." *Landscape and Urban Planning* 127 (2014): 104-113.
- Antonsson, H., Finnveden, G., GULLBERG, A., Beser Hugosson, M., Höjer, M., Isaksson, K. et al. "Nu finns chansen att riva upp beslutet om förbifarten." *Dagens Nyheter*, September 16, 2014.
- , Finnveden, G., GULLBERG, A., Höjer, M., Isaksson, K., KAIJSER, A., et al. "Elbil-lar och förnybara bränslen räcker inte." *Dagens Nyheter*, September 22, 2014.
- Appelblad Fredby, J., and NILSSON, D. "From 'All for some' to 'Some for all'? A historical geography of pro-poor water provision in Kampala." *Journal of Eastern African Studies* 7, no. 1 (2013): 40-57.
- ARMIERO, M., and D'Alisa, G. "Rights of Resistance: The Garbage Struggles for Environmental Justice in Campania, Italy." *Capitalism, Nature, Socialism* 24, no. 3 (2012): 52-68.
- . "L'ambientalismo USA." In *Dizionario del comunismo eretico vol. 3 Americhe*, ed. P.P. Poggio. Milano: Jaca Book, 2013.
- . "Re/inventare il sapere locale nelle periferie napoletane. Scienza e lotte sociali nella Campania dei rifiuti." In *La scienza incerta e la partecipazione. L'argomentazione scientifica nei nuovi conflitti ambientali*, ed. V. Pellegrino. Trieste: Scienza Express, 2013.
- . "Riprendersi la primavera. Zapruder." *Storie in movimento* 30 (2013): 22-37.
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