

# Astrid Kander - Curriculum Vitae

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## Education

<b>Bachelor's degree in Education, Primary School</b>	1985
<b>Bachelor's degree (Economic History and Philosophy)</b>	1993
<b>Licentiate in Economic History</b>	1998
<b>Doctorate in Economic History</b>	2002
<b>Docent title (Habilitation)</b>	2006

**Languages spoken:** Swedish and English

## Employment

Doctoral student in Economic History, Lund University	1994-2000
Student advisor in Economic History, Lund University	2001-2002
Research fellow at Lund University, funded by Handelsbankens research foundation	2003-2005
Assistant professor at CIRCLE, Lund University	2005-2008
Senior Lecturer/Associate Professor at Department of Economic History and CIRCLE, Lund University	2009-

## Scholarly Qualifications

### *Peer reviewed articles*

Energy availability from livestock and agricultural productivity in Europe, 1815-1913: a new comparison, forthcoming in *Economic History Review*, final acceptance letter received 2009 07 16, co-author: Paul Warde.

Swedish Business Research Productivity, second revised manuscript submitted to *Industrial and Corporate Change*, co-author: Olof Ejermo.

Electrification and Energy Productivity, *Ecological Economics*, (2009) 68, pp 2808–2817, co-authors: Kerstin Enflo and Lennart Schön.

Is it simply getting worse? Agriculture and Swedish greenhouse gas emissions over 200 years, *Economic History Review*, 61, 4 (2008), pp. 773–797.

Identifying Development Blocks: a New Methodology  
*Journal of Evolutionary Economics* (2008) 18, pp 57-76, co-authors: Lennart Schön and Kerstin Enflo

North versus South: Energy transition and energy intensity in Europe over 200 years, *European Review of Economic History*, vol 11, issue 02, August 2007, pp 219-253. Co-authors: Ben Gales, Paolo Malamina and Mar Rubio.

De empiriska paradoxernas upplösning – om FoU och tillväxten, *Ekonomisk Debatt* Vol 5, 2007, p 6-15, co-authors: Lennart Schön and Olof Ejermo.

The energy-capital relation, Sweden 1870-2000, *Structural Change and Economic Dynamics*, 2007, 18: 291-305, co-author: Lennart Schön

Foreign trade and declining pollution in Sweden: A decomposition analysis of long-term structural and technological effects, *Energy Policy*, (2006), vol 34(13): 1590-1599, co-author: Magnus Lindmark

Baumol's Disease and Dematerialization of the Economy, *Ecological Economics* 55(2005): 119-130.

Energy consumption, pollutant emissions and growth in the long run -Sweden through 200 years, *European Review of Economic History* 8 (2004): 297-335. co-author: Magnus Lindmark.

### **Books**

*Economic growth, energy consumption and CO2 emissions in Sweden 1800-2000*, Lund Studies in Economic history 19, Almqvist & Wicksell International, Lund, 2002.

### **Book chapters**

Industrial dynamics and innovative pressure on energy - Sweden with European and Global outlooks, in Petersson, B. and Törnquist-Plewa, B. (eds) *Energy Security in Europe*, Proceedings from the conference "Energy Security I Europe" Lund 24-25 September 2007, p 87-102, 2008 co-author Lennart Schön

The Swedish paradox revisited, p 48-76, in Karlsson, C., Johansson, B. and Stough, R. (eds), (2009) *Entrepreneurship and Innovation in Functional Regions*. Edgar Elgar, co-author: Olof Ejermo

Blir det bara värre? Svensk klimatpåverkan under 200 år, s. 405-428, 2008 in Runefelt, L. *Svensk mosskultur: Odling, torvanvändning och landskapets förändring 1750 till 2000*, Stockholm: Skogs och lantbrukshistoriska meddelanden nr 41, Eskilstuna.

Ekonomisk tillväxt och miljö – ekonomiskhistoriska bidrag till miljödebatten, p 309-335, in Wickenberg, P. Nilsson A. och M. Stenroth Sillén (red) (2004). *Miljö och hållbar utveckling-samhällsvetenskapliga perspektiv från en lundahorisont.*, Studentlitteratur, Lund.

Pre-Industrial Energy Use and CO2 Emissions in Sweden, p 799-822, in ed Cavaciocchi, S. *Economia e energia secc XIII-XVIII*, La Tipografica Varense S.p.A, Aprile, 2003.

Teknisk förändring och energiintensitet in Lindmark, M., Olsson, S-O. and Pettersson, R (eds): *Miljö - ekonomi – historia*, forskning i Halmstad nr 6, Laholm, 2002, p 49-60.

Energi- och koldioxidintensitet under den svenska industrialiseringen, in Eliasson, P. & Lisberg Jensen, E., (eds) *Naturens nytta, Från Linné till det moderna samhället*, Historiska media, Lagerbringbiblioteket, Lund, 2000, p 165-182.

Skogen som historisk källa respektive sänka för koldioxid, i Linnér & Svidén: *Miljöhistoria på väg*, Tema V Rapport 22, 1996, p 36-47.

## *Conference papers and working papers*

### **WP 2008/16**

Enflo, K.; [Kander, A.](#); [Schön, L.](#) *Electrification and energy productivity*, ISSN: 1654-3149

### **WP 2008/12**

[Kander, A.](#); Malanima, P.; Warde, P. *Energy transitions in Europe: 1600-2000*, ISSN: 1654-3149

### **WP 2007/07**

*Swedish business research productivity – improvements against international trends*

[Kander, A.](#); [Ejeremo, O.](#)

This paper was presented at the international FIG (Firms, Innovation and Growth) workshop in Lund January 2008.

### **WP 2007/06**

*In Defense of Electricity as a General Purpose Technology*

[Kander, A.](#); [Schön, L.](#); Enflo, K.

### **WP 2007/05**

*Industrial dynamics and innovative pressure on energy - Sweden with European and Global outlooks*

[Kander, A.](#); [Schön, L.](#)

### **WP 2006/10**

*Development blocks and the second industrial revolution Sweden 1900-1970*

[Kander, A.](#); [Schön, L.](#); Enflo, K.

### **WP 2006/09**

*Trends in R&D, innovation and productivity in Sweden 1985-2002*

[Kander, A.](#); [Ejeremo, O.](#)

### **WP 2006/01**

*The Swedish Paradox*

[Kander, A.](#); [Ejeremo, O.](#)

*The Service Transition and Energy* in Utrecht, August 2009, previous version presented at LEG workshop in Lund 20-21 of March 2009 and in May 2009 in Mölle, co-author Sofia Henriques

*Energy Transitions in Europe 1600-2000*, Paper for the International workshop:

Technological discontinuities and transitions:

Evolution theory and inter-disciplinary crossovers in Eindhoven, May 14th-16<sup>th</sup> 2008, co-authors: Paul Warde and Paolo Malanima.

*Innovative Activities and Growth in Dahménian Sectors: Sweden since 1985*, Paper for Sound Economic History Seminar in Copenhagen, April 2008, co-authors: Olof Ejeremo and Martin Henning Svensson.

*Innovative activities, industrial transformation and growth in Sweden since 1985*, Paper for the Seventh Conference of the European Historical Economics Society (EHES) in Lund, June 29<sup>th</sup> - July 1<sup>st</sup>, 2007, co-authors: Martin Henning Svensson and Olof Ejeremo

*Industrial Dynamics and innovative pressure on energy, Sweden with European and Global Outlooks*, Paper for the Nordic Historical Meeting in Reykjavik 2007, co-author: Lennart Schön

*The Swedish paradox*, CIRCLE electronic working paper, 2006/01, co-author: Olof Ejermo

*Trends in R&D, innovation and productivity in Sweden 1985-2002*, CIRCLE electronic working paper 2006/09, paper presented at SPRU conference in Brighton 11-13 Sept 2006, co-author: Olof Ejermo

*Energy availability and agricultural productivity- a new comparison*, paper for the XIV<sup>th</sup> International Economic History Congress, in Helsinki, 21-25 August 2006, co-author: Paul Warde.

*North versus South. Energy transition and energy intensity in Europe over 200 years*, paper for the XIV<sup>th</sup> International Economic History Congress, Helsinki, 21-25 August 2006, co-authors: Paolo Malanima, Ben Gales, Mar Rubio

*Energy consumption in Europe over the long run. A comparative approach*. Paper presented at the RTN meeting in Warwick, October 28-30, 2005, and at the 25th Conference of the Portuguese Economic and Social History Association conference in Evora, November 18-20. 2005, co-authors: Ben Gales, Mar Rubio and Paolo Malanima.

*Challenges in the Swedish Innovation System – A Quantitative Perspective on the Growth Process*, paper presented at the 8th Uddevalla Symposium: “Entrepreneurship and Innovation in Functional Regions” in Uddevalla, Sweden, September 15-17, 2005, co-authors: Olof Ejermo and Claes Malmberg

*Is it simply getting worse? Agriculture and Swedish greenhouse gas emissions over 200 years*, paper for the Nordic Environmental History Conference, Malmö/Köpenhamn June 2004.

*Energy and CO<sub>2</sub> intensities during the 19<sup>th</sup> and 20<sup>th</sup> centuries: Sweden versus Spain*, paper for ISEE (International Society for Ecological Economics), Montreal, July 2004, co-author: Mar Rubio.

*Economic Growth, Technical Change and Energy in Sweden 1870-2000*, paper for the 5<sup>th</sup> European Historical Economics Society, Madrid, July 25-27, 2003, co-author: Lennart Schön

*Trade and the Environmental Kuznets Curve – the Swedish case*, Ekonomiskt-historiskt möte i Lund, 17-19 Oktober 2003, co-author: Magnus Lindmark

*Technical change and energy intensity in Sweden 1870-2000*, paper for the 30<sup>th</sup> ICOHTEC Symposium in St Petersburg, August 2003.

*Energy consumption in Sweden 1800-2000*, paper for the EHES conference in Prague Sept 2003, co-author: Lennart Schön.

*Pre-industrial energy use and CO2 emissions in Sweden*, Paper presented at the study week on pre-industrial energy at the Datini institute, Prato, Italy, 15th-19th of April, 2002.

*Does decreasing energy intensity in developed countries imply environmental dumping in developing countries? A Swedish case study*, paper presented at the XXIX Symposium of the International Committee for the History of Technology, June 24-29, 2002, Granada, Spain.

*Energy intensity and CO2 intensity during the Swedish industrialization phase*, paper for "Det miljöhistoriska Linnésymposiet i Lund", 10-11 Sept 1999.

*Any environmental relief from the transition to a service-economy? Swedish energy intensity as a case study*, paper for the Towards a Sustainable Society in the New Millenium Conference in Umeå, Sweden 10-12 June, 1999.

*Swedish Forest Development 1800-1990*, paper presented at the C-43 session at the Twelfth International Economic History Congress in Madrid, 24-28 August, 1998.

### ***Popular scholarship***

Sagan om miljön och tjänstesamhället, in FORMAS tidning: *Miljöforskning för ett uthålligt samhälle*, nr 2, April 2006.

*Offentlig forskning och utveckling och tillväxt*, VINNOVA-report January 2007, co-authors: Olof Ejermo and Kerstin Enflo

*Decoupling av energi och koldioxid i förhållande till BNP*, ITPS-rapport, inskickad till ITPS 20 december 2007.

### ***Other publications***

*Rapport från alumniundersökning vid ekonomisk-historiska institutionen ht 2002*, see <http://www.ekh.lu.se/pdf/alumniundersokning.pdf>

*Energy consumption and Forestry in Sweden 1800-1990, implications for CO2 emissions*, mimeo, licentiate thesis at Department of Economic History, Lund, approved in March 1998.

## 2 Participation in/Leadership of Research Projects

### *LEGS: Long term Energy Growth Sustainability*

**Duration:** 2009 –(at least three years)

**Funding:** Lund University Centrally, 1 million SEK per year.

**Platform director:** Astrid Kander

**Idea:** To create a platform for economic energy research at the School of Economics and Management in Lund. ([www.ekh.lu.se/legs](http://www.ekh.lu.se/legs))

### *SWINNO : Swedish innovations*

**Duration:** 2008-2011

**Funding:** VINNOVA, 4.5 million SEK. (+1.7 million SEK)

**Project leaders:** Astrid Kander and Jonas Ljungberg

**Idea:** To construct a literature-based innovation data-base, similar to the one existing for Finland for the period 1945-2000. We have hired two PhD students for this project: Karolin Sjö and Josef Taalbi and will also hire 5 students to assist with the data assembly in 2010.

### *FoU, innovationer och tillväxt*

**Duration:** 2008-2011

**Funding:** VINNOVA, 1.5 million SEK.

**Project leaders:** Astrid Kander and Olof Ejermo

**Idea:** To research the interrelations of R&D, innovations and growth in Sweden, based on firm level data, with sectoral and national wide perspectives. Collaboration with Martin Andersson and Sara Johansson at CESIS (Stockholm-Jönköping).

### *Hållbar tillväxt, energi och innovationer*

**Duration:** 2008-2012

**Funding:** VINNOVA, 3 million SEK.

**Project leaders:** Lennart Schön and Astrid Kander

**Idea:** The aim of the project is to increase the understanding of the long term interrelations of energy, greenhouse gases and economic growth, especially the effects from innovations and politics.

*Energisystem – som ekonomi och teknik*

**Duration:** 2008-2009

**Funding:** Crafoordska stiftelsen, 1.8 million SEK.

**Project leader:** Lennart Schön

**Participants:** Lars J. Nilsson, Astrid Kander, Jonas Gabrielsson and Karin Ericsson

**Idea:** To combine entrepreneurial, technological and economic-historical perspectives in the study of systems of energy.

*Globalizing Europe Economic History Network (GLOBALEURONET)*

**Duration:** 2006-2010

**Funding:** European Science Foundation (ESF).

**Steering committee:** Stefano Battilossi, Erik Buyst, Herman de Jong and Lennart Schön.

**Lund group:** Astrid Kander, Lennart Schön, Kerstin Enflo

**Idea:** The main scientific objective of the programme is to investigate, on a systematic, Europe-wide basis, the economic, institutional and social specificities of Europe's participation in the waves of globalization that have occurred during the last 150 years. The project integrates both quantitative and qualitative approaches, and involves cooperation among economic historians in 14 European countries.

*ENSE: Energi och säkerhet i Europa*

**Duration:** 2006-ongoing

**Funding:** Riksbanken has provided planning grants and the Centre for European Studies (Lund University) has financed some of the meetings.

**Project leader:** Prof Bo Peterson, statsvetenskapliga institutionen, Lund.

**My role:** invited member of the network

**Idea:** To establish a network of researchers at Lund University that deals with Energy and Security. The network is interdisciplinary, with researchers coming from the faculties of Technology, Social Sciences, Economics, and Humanities. The initial goals are to:

- a) consolidate the new research environment, through common seminars.
- b) organize an international workshop in Lund on the topic of 'Energy and Security in Europe' during June 2007.
- c) submit common applications for research programmes and projects to research councils and other financiers in Spring 2008.

### *Long-term Energy and Growth (LEG) project*

**Duration:** 2003-ongoing

**Funding:** The LEG network has from 2007 received some funding for workshops from GLOBALEURONET (ESF). Before that we received money from national bodies for financing workshops.

**Project leader:** Astrid Kander

**Researchers:** Francesca Antolin (Full professor, Barcelona University, Spain), Silvana Bartoletto (PhD, researcher at ISSM-CNR, Naples, Italy), Kerstin Enflo (PhD student, Lund University, Sweden), Ben Gales (Associate professor, Groningen University, Netherlands), Astrid Kander (PhD, post-doctoral fellow, Lund University, Sweden), Magnus Lindmark (Associate professor, Umeå University, Sweden), Paolo Malanima (Full professor, Director of ISSM-CNR, Naples, Italy), Mar Rubio (PhD, Assistant professor, University Pompeu Fabra, Barcelona, Spain), Lennart Schön (Full professor, Lund University, Sweden), David Stern (Associate professor, Rensselaer Polytechnic Institute, US), Sofia Teives Henriques (PhD student, Lund University, Sweden), Enric Tello (Associate professor, Barcelona University, Spain), Richard W. Unger (Full professor, University of British Columbia, Canada), Paul Warde (Lecturer, Cambridge University, England), Benjamin Warr (PhD, researcher, INSEAD, Fontainebleau, France), and Sir Tony E. Wrigley (Emeritus professor, Cambridge University, England)

**Idea:** This network has a hub at Lund University and aims at establishing a consistent long-run dataset (1800-2000) for energy, including traditional energy sources, based on comparable standards across an increasing number of European countries. The long term objective is to create a data-base on energy that will be openly available for researchers, in order to shed light on the crucial issue of how important energy is for economic growth.

<i>Factors of Growth</i>
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**Duration:** 2004-2007

**Funding:** Handelsbanken's Research Foundation

**Project leader:** Lennart Schön

**Participating researchers:** Astrid Kander, Jan Andera, Kerstin Enflo, Camilla Josephson

**Idea:** The project analyses factors behind long run growth, such as market institutions, regional structures and the accumulation of knowledge. These factors are analysed in both a Swedish and a European context. Productivity growth, innovation, and learning within industries with different production processes are investigated and analysed from the perspective of endogenous growth theory. A comparative analysis is also made of regional growth and patterns of convergence/divergence within Europe in relation to shifts in the technological frontier since the mid-20th century. Furthermore, one of the studies within the project analyses institutional factors, particularly barriers to trade, affecting the structure of the European car industry. In all these areas, the project constructs new data series.

*Unifying the European Experience: Historical Lessons of the European Development.*

**Duration:** 2005-2008

**Funding:** European Commission

**Coordinators and team leaders:** Kevin O'Rourke, Dublin; Giovanni Federico, Florence; Pierre Cyrille-Hautcoeur, Paris; Piotr Franaszek, Krakow; Max-Stephan Schultze, London; Albert Carreras, Barcelona; Stephan Broadberry, Warwick; and Lennart Schön, Lund.

**Lund team:** Lennart Schön, Astrid Kander, Lars Svensson, Anders Nilsson, Jonas Ljungberg

**Idea:** This is a joint programme of economic historians at the European University Institute in Florence, Federation Paris, Jagiellonian University in Krakow, London School of Economics, Pompeu Fabra in Barcelona, Warwick University, and Lund University. The programme aims at creating a unified economic history of Europe through increased cooperation and mobility of researchers. Thus, it involves fellowships that sponsor young economic historians at the seven participating institutions. It is financed as a Marie Curie Research Training Network in economic history under the European Commission's Sixth Framework Programme, and it is coordinated by Centre for Economic Policy Research (CEPR) in London.

*Structural Changes and the Greenhouse Effect in the 19th and 20th Centuries Sweden*

**Duration:** 1996-2000

**Funding:** The Swedish Environmental Protection Agency, FRN (Forskningsrådsnämnden), SJFR (Skogs och Jordbrukets Forskningsråd)

**Project leader:** Lennart Schön

**Researchers:** Astrid Kander and Lennart Schön

**Idea:** The overall interest of the project concerns the relations among economic growth, structural changes, and the environment in a historical perspective. The project investigates whether structural breaks involve trend-breaks in environmental loading. Other determinant factors like technical change are also studied in the course of the project. Implicitly, there is the question of the need for policies to direct societal activities towards environmentally benign alternatives. Therefore, the role of the state is explored.

More specifically, the prominent environmental problem of global warming is addressed. Two basic activities that have influenced the concentration of greenhouse gases in the atmosphere during the last two centuries are fossil fuel combustion and changes in land use, particularly forest clearings. The project aims at determining the net results of these activities. A sink-source perspective is therefore adopted.

### 3. International Contacts

I am generally active in participating in international conferences and workshops in the areas of economic history, environmental history, history of technology, ecological economics and innovation studies, presenting papers and sometimes organizing sessions (ICOTHEC in St Petersburg 2003 and the World Congress of Economic History in Helsinki 2006). Paul Warde and I have organized a session for the World Congress of Economic History in Utrecht in August 2009. Furthermore I have initiated new international networks, such as the LEG network (Long term Energy and Growth) (also called EGP network), comprising 15-20 scholars with a core of 7-8 that are more active. This network has held biannual workshops since 2003, and is still active publishing booklets and articles. Paul Warde, Paolo Malanima and I are in the process of writing a book for Princeton University Press, in the prestigious book series that Joel Mokyr is editing there about the Economic History of the Western World. We signed the contract in January 2009 and now we have the first draft written and will discuss it in Naples on December 11<sup>th</sup> and 12<sup>th</sup>. The book is scheduled for publication in the summer of 2010.

In March 2009 I organized a workshop in Lund for the LEG network. In 2007 year Alessandro Nuvolari and I initiated the FIG network (Firms, Innovation and Growth), with some 15 researchers, which had a first workshop in Lund in January 2008 and will have another event in Eindhoven in June 2009.

Lennart Schön and I organized the seventh conference for the EHES (European Historical Economics Society) in Lund June 29<sup>th</sup> -July 1<sup>st</sup> 2007, with 140 participants, mainly coming from abroad (20 were Swedes). I was in the organizing committee for the Nordic Environmental History Conference in Malmö-Copenhagen 2004, attended by more than 100 people.

I am currently (November 2009) involved in the writing of a research application together with David Stern from Australia, with the title: *Assessing the Difficulty of Transitioning to a Low Carbon Economy* which, if granted will further strengthen my international networking and grant me a research time in Australia.

I have been invited to give guest lectures abroad at the Cambridge Group for the History of Population and Social Structure, Department of Geography, Cambridge, UK (2002), Ekonomisk Historiska Institutionen, Köpenhamn, Danmark.(2002, 2008), Economic and Social history Department, Utrecht, Holland (2003), Rensselaer Polytechnical Institute, Troy, New York, US (2004), IIASA (Institute for International Applied Systems Analyses), Laxenburg, Austria (2005), Division for Natural Resource Management, Chalmers, Göteborg, Sweden (2005), in Tartu, Estland 2007 at a summer school for PhD students in organized by the ESF (European Science Foundation), to Jyväskylä in April 2009 to teach in a Master program. I was in November 2009 invited to give a seminar in Jena in 2010.

#### 4. Other

I have received some scholarships: three-year post-doc grant from Handelsbanken's research foundations, Sweden, (113 000 Euros), 2003-2005<sup>1</sup>, a smaller one from the Royal Science Academy, Sweden, (5400 Euros) in 2003.

I have acted as a referee for *Ecological Economics* (2005) and *Resource and Energy Economics* (2006), *World Development* (2007), *Explorations in Economic History* (2008), *Environmental Science & Policy* (2009), *Ecological Economics* 2009, and *Scandinavian Economic History Review* (2009). I have also acted evaluator for research councils such as the Austrian Science Foundation (2008) and the Swiss Science Foundation (2006).

In 2008 I spoke at two panel debates: one in April, organized by VINNOVA for parliament politicians in Stockholm and one in September at Lund University, when the Climate initiative was inaugurated.

I acquired my position in 2004 as assistant professor at CIRCLE in international competition and was the clear first choice for the post according to the extensive report by the evaluator (Docent Jan Bohlin, Göteborg). He wrote: "Of the remaining three applicants, I find that Kander clearly ranks ahead of (the others). Her research is innovative and has resulted in important new knowledge of the environmental effects of economic growth in a historical perspective. In her work with long time series data, she has demonstrated her ability to perform the kind of research that will be essential for the Assistant Professor in Economic History at CIRCLE."

In the evaluation for docent (Oct 2006) I received highly complimentary remarks from the evaluator, (Professor Ulf Olsson, Göteborg), who wrote:

"Kander's research has proven extremely fruitful for international collaboration projects, which has resulted not only in a number of articles, but also in the establishment of the international EGP (Energy-Growth-Pollution) network, where Kander functions as a coordinator and her thesis as a reference work. She has also been active in international conferences, as both an organizer and presenter of own contributions.

From what is stated above, it should be obvious that Kander is a skilled researcher, who after her dissertation in 2002 has established herself quickly both within and outside Sweden.

During this process, she has both widened her research experiences and shown great independence. LUSEM (Lund University School of Economics and Management) says in its guidelines that docent competence requires applicants to demonstrate 'important scholarly work equivalent to at least two doctoral theses.' Considering the extraordinary qualities of the [doctoral] thesis and the substantial and significant papers that Kander has added to her contributions, I think she fulfils these requirements and recommend that she is appointed as docent."

In the evaluation of Lund University in 2008 (RQ 08) my article for the *Economic History Review* (2007) was chosen by the department of Economic History as their best example of novel research. In the RQ08- assessment I also represented senior researchers (one out of three from the School of Economics and Management) in the interview by the chairman of the evaluation committee.

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<sup>1</sup> In Sweden this is regarded as a prestigious grant awarded only to high quality theses in economic disciplines. The candidates have to be nominated by their department and then there is a national competition.

In 2009 I received a position as Senior Lecturer in Economic History with special regard to long-term economic growth, innovation and environment, in international competition. I was clearly ranked first among four applicants and the concluding statements by the evaluators professor Olle Krantz and Lena Andersson-Skog read: “Her research is innovative, clearly presented, varied and shows progression.”

## Pedagogic Merits

### 1. Pedagogic Courses

Bachelor in Education for primary school, Lund University.	1982-1985
“PBL- an introductory package”, workshop at UPC (University Pedagogic Centre), Lund University, two days’ course.	1996
“Teaching course for social scientists”, at UPC, Lund University, two weeks’ course.	1997
“Research supervision – an educational task with possibilities”, two days’ course at UCLU, Lund University	2004
Pedagogic continuation course, at CED (Centre for Educational Development), Lund University, two weeks’ course.	2006
Communication course, at CED, Swedish and English, one week course	2008
Language Course in Riverside, UK, offered by LUSEM (Lund University School of Economics and Management), one week intensive course	2009

### 2. Supervision

I am the main supervisor for Sofia Henriques, since 2006. Sofia work on writing the energy history of Portugal in a comparative European context. All the basic data collection and estimation of Portugal’s energy history is completely finished and written up in a good manner. This will make up the first heavy chapter of the monograph (some 70 pages). She has a clear plan for the rest of the chapters, and some of them are wholly or partly written already so it is my judgment that she will be able to defend her thesis in October 2010.

I am also the main supervisor for Karolin Sjöö since autumn 2008 and second supervisor of Josef Taalbi, both of them working on SWINNO (Swedish Innovations) and we meet frequently.

I was the second supervisor for Kerstin Enflo (disputation in April 2008). Kerstin asked me to be her second supervisor some years ago, with the motivation that she wanted me to teach her

how to publish internationally. Kerstin and I collaborated well and wrote two articles (with Lennart Schön) that have been published in good international journals. Kerstin is currently participating in an Academic Traineeship, where she spoke so well of me that I recently received a request to become the mentor for another young female researcher in that program.

I seem to have an impact on future generation of young PhD students also outside of Sweden, witnessed by citations and several requests to become supervisor or assist in other ways.

I am part of the group, which assists prefekt Anders Nilsson in selecting PhD candidates for our PhD program in Economic History. This group consists of the (chair) full professors at the department plus two associate professors: Martin Dribe and me. I consider my appointment for this task as a clear career support.

I have been the public discussant of two PhD theses (2003, 2006) at the final seminars (prior to the formal thesis defense) at the Department of Economic History, Lund University. I was part of the assessment committee for Licentiate Magnus Bohman and for PhD Carl Johan Roubert, in the spring of 2009 (in both cases I was the chair of the meetings).

In addition to supervising at the PhD level I have supervised several students in Economic History to a completed “Magister” or Master thesis.

### 3. Teaching

#### Extent

I have taught at the university level since 1994. In extent, my teaching activity is equivalent to approximately two years’ full time teaching as lecturer. (This claim can be confirmed by Anders Nilsson, Prefect of the Economic History Department, Lund University).

Presently I participate in the steering committee for the development of a new prestigious Master program at LUSEM: Sustainable Business Leadership, which will start in the autumn of 2009. I am also responsible for developing one of the 15-credit courses within the program, together with Jonas Gabrielsson and Tomas Hellström at CIRCLE, which will run for the first time in the spring of 2010.

I have been involved in elaborating (developing) and/or teaching the following courses

Elaborator and teacher of the 7.5 ECTS credit course: Energy, Innovation and Sustainability	2008-ongoing
Elaborator and teacher of the course: <i>Growth and the Environment</i> , (EKH418), 15 ECTS credits, at the Department of Economic History, Lund University. This course has recently been developed into EKHB18, consisting of EKHB19 and EKHB20.	1998- ongoing
Environmental History in the 4-year Environmental Science	2000-2003

programme at Lund University.	
Co-elaborator and teacher of the course: <i>Economy and the Environment</i> , 7.5 ECTS credits, in the International Master's Programme, LUMES (Lund University Master of Environmental Studies).	1998-2003
Co-elaborator and teacher of the course: <i>Development and the Environment</i> , 7.5 ECTS credits at the International Master's Programme LUMES (Lund University of Environmental Science).	1997-2001
Teaching in some general courses in Economic History, Lund University -- for instance, <i>Society, Firms and Capital Markets</i> .	1994-1998

### Levels

I have taught at various levels, from undergraduate to Master's-level courses. I have taught not only economic history, but also interdisciplinary courses in the LUMES MSc programme (Lund University Master's of Environmental Science), energy history at IMES (Institutionen för miljö och energisystem, at LTH) and environmental history in the environmental science education programme (Natural Sciences Faculty).

### Quality

A qualitative indicator of my teaching is provided in the positive course evaluations that my 15 ECTS credit course *Growth and the Environment* has received over a number of years. A summary by our student advisor of the course evaluations can be found (in Swedish) at [www.ekh.lu.se](http://www.ekh.lu.se), under the headings of *student* and then *kursutvärderingar*.

## 4. Experience with Various Forms of Teaching and Examination

The TLAs (teaching-learning-activities) that I use most are lecturing, seminar discussions (including role games), and written home assignments. When I lecture, I use activating techniques that I have learnt at pedagogic courses, such as small-group 5-minutes focused chats and starting a lecture by referring to a concrete experience.

## 5. Planning and Leadership of Teaching

My experience from planning and being responsible for teaching is relatively wide and I am quite active in planning new courses. My most recent developing experiences of new courses are all at the Master level/Phd level. At the department of Economic History these days, after the Bologna alignment, there are basically two levels of courses: Undergraduate and Master/PhD courses.

I have planned the new course: *Sustainable growth in global competition (15 HP)* within the new Master program: Sustainable Business Leadership, which was launched in the fall 2009, and I will be course responsible when the course runs for the first time in spring 2010.

Lennart Schön and I were responsible for developing and teaching one of the courses of the program Samhällsekonomiska brännpunkter i Lärarlyftsprogrammet 2008, addressed to teachers in secondary school and high school. I have also developed and been course responsible for a new Master course/PhD course (optional at Economic History in the PhD program) that was given for the first time in the autumn 2008: EKH P08: *Energy, Innovations and Sustainability*. This course became very popular, and we had to say no to some students who wanted to attend it. The same situation is this year. Some students even want just to come and listen to my lectures there without being formally admitted to the course (and not getting any credits for it).

In the past I have developed the course Growth and the Environment (15 hp undergraduate level course) myself, which has been successfully been running for more than 6 years now, and I have in collaboration with teachers from other disciplines (sociology, economics) developed two former Master courses at LUMES (*Development and the Environment; Economy and the Environment*). On several occasions I have also been formally responsible for these Master courses. I am very experienced in collaborating with teachers from other disciplines in setting up these Master/PhD courses.

## 6. Selected Guest Lectures

Cambridge Group for the History of Population and Social Structure, Department of Geography, Cambridge, UK.	2002
Economic History Department, Copenhagen, Denmark.	2002
Economic and Social history Department, Utrecht, Holland.	2003
Economic History Department, Copenhagen, Denmark.	2003
Economic History Department, Göteborg, Sweden.	2003
Rensellair Polytechnical Institute, Troy, New York, US.	2004
IIASA (Institute for International Applied Systems Analyses), Laxenburg, Austria	2005
Division for Natural Resource Management, Chalmers, Göteborg, Sweden.	2005
At a European summer school for students in Economic History, Tartu, Estonia.	2007
Sound Economic History Seminar, Copenhagen.	2008
University of Jyväskylä, Finland	2009

## **7. Other**

I worked 50% as student advisor with the Department of Economic History at Lund University for 1.5 years (2001-2002). During that time I initiated and carried out an alumni survey to see what kind of professional careers our C- and D-level students followed after graduation. The report I wrote on this question (downloadable from the department's webpage) is often referred to in conversations at the department, and has been cited in another alumni report from Uppsala.

### **Academic leadership**

I was recently appointed Director for the new LEGS (Long term Energy Growth and Sustainability) network at LUSEM/LTH in March 2009. I will be responsible for the budget, the seminar series, for fundraising and act webmaster etc. The network received 1 million SEK annually starting in 2009 from the central University administration and my plan is to raise more money from VINNOVA, Energimyndigheten and electricity companies to be able to expand the research activities and to recruit some new people.

I am since many years experienced in mobilizing people towards a common goal through my involvement the LEG-network (since 2003) and the FIG network (since 2007). This task requires more leadership ability than many formal leadership tasks, since I have no formal power, only my personal capability to encourage participants to remain committed to the work.

I have also taken on some leadership responsibility at CIRCLE. For instance, I have chaired the regular internal meetings. Since 2007 I am part of the Leadership group at CIRCLE, as representative of the assistant professors.

At LUSEM (Lund University School of Economics and Management) I was involved in election preparation committees (for Prefect and for the Dean, Vice-Deans and Board). I was also one of LUSEM's representatives in the election committee for choosing the teaching faculty representatives on the University Board.

In 1997-1998, I was the doctoral student representative on the Board of the Department of Economic History, Lund University. Since 2007 I am currently teacher representative in the same board. I played an active role in a committee at the Economic History department that adjusted our undergraduate studies programme to the Bologna system in 2007.

In 1997-1998, I was a member of the council for doctoral students at the Social Sciences Faculty (SDR), Lund University.

### **Contacts with society**

I am gradually getting more involved in the third task of the University (communicating research to the society). Olof Ejermo, Kerstin Enflo and I wrote a report for VINNOVA in 2007 on Public R&D and economic growth, which they have quoted and used in many contexts. When VINNOVA organized a workshop for parliament politicians on R&D politics in May 2008 I was their chosen representative from CIRCLE in a panel debate on R&D and

economic growth. During the spring 2008 I assisted Alfredsson and Scocco in their writing of a report on EU policies on climate change (*En klimatstrategi för EU. Konsten att nå både klimatmål och god tillväxt: Hållbara investeringar, teknik och regleringar*, published in June 2008). I was in the panel when Lund University launched the Climate initiative in September 2008 with an audience from firms and organizations.

## References

1. Professor Sir Tony Wrigley, Cambridge Group for the History of Population and Social Structure, Department of Geography, Cambridge University, Cambridge, UK, email: eaw20@cam.ac.uk
2. Professor Lennart Schön, Department of Economic History, Lund University, email: Lennart.Schon@ekh.lu.se
3. Paolo Malanima, Director of the Institute of Studies on Mediterranean Societies (of the Italian National Research Council) and Professor of Economic History and Economics at University Magna Graecia in Catanzaro. email: paolo.malanima@issm.cnr.it

## Witnessed by

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