



CERE

2012



Research Directors Welcome

CERE started out on a small scale in the end of 2009, and took its first wobbly steps in 2010. From then on things have developed quickly and CERE is progressing rapidly toward the long-time goal: to be an attractive research node at international level in our subject area.

Our strategy has consisted of the twin pillars of bottom-up recruitment and intellectual flow. Thus, we have hired five strong post-docs, all from the international market. Our most recent recruitment are two PhD-students, also internationally recruited. Secondly, we have had a very active exchange program, as witnessed by the seminar series and our two conferences (Ammarnäs and Ulvön). We have also invested in our information hub, www.cere.se, eminently handled by Mona Bonta Bergman.

There is little doubt in our minds that we have chosen the right strategy for an organization of this kind, at least in its start-up phase. It is now time to unleash the second part of our strategy, which will be to bolster our human capital at the

senior research level. At the very minimum, we hope to hire one senior researcher (just under the level of Full Professor) in 2013. Furthermore, one focal area of research will be energy and we have several exciting projects coming up this area.

CERE has added an Advisory Board, consisting of;

Professor Lars Bergman, Former President,
Stockholm School of Economics
Professor Torbjörn Fagerström, CEO,
Swedish Foundation for Strategic Research
Yvonne Fredriksson, Former Director General,
Swedish Energy Markets Inspectorate
Kjell Jansson, CEO, Swedenergy
Anders Kristoffersson, Senior Advisor, Ministry
of Finance

2013 promises to be a “big” year in terms of new PhDs. If things work out as planned, there will be four new PhDs in our subject area in 2013.

Bengt Kriström

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About CERE

Umeå Campus has for decades been one of the national and international nodes for research and education in environmental and natural resource economics, mainly revolving around two academic departments that have worked in close cooperation with each other, the Department of Forest Economics at the Swedish University of Agricultural Sciences (SLU), and the Department of Economics (today Umeå School of Business and Economics, USBE), at Umeå University (UmU). After a long time in the making, it was finally decided in 2009, to further strengthen this collaboration and join these two separate, but interlinked, research groups in resource and environmental economics by creating a research centre.

The main objectives of CERE are to:

Link research groups from different departments and the two universities

Provide seminars and workshops within the field of environmental and resource economics and management

Constitute a platform for a creative and strong research environment within the field

Develop higher education in environmental and resource economics

The creation of CERE, the Centre for Environmental and Resource Economics, was achieved by pooling researchers from the two above mentioned departments, and including economic historians with a research focus on historical aspects of resource use and environmental impacts from the Department of Geography and Economic History, UmU. Together, the researchers at CERE embrace research

areas as diverse as non-market valuation, climate policy, forest economics, environmental efficiency analysis, and historical analysis of sustainable development, to mention a few examples of recent research.

Physically located in the Social Sciences Building at UmU, CERE is led by its two originators. The research director is Professor Bengt Kriström, who is also head of the Department of Forest Economics, SLU Umeå, while the deputy research director is Professor Runar Brännlund, USBE, Umeå University. The scientific secretary is Associate Professor Göran Bostedt, employed both at Department of Forest Economics, SLU Umeå, and USBE, Umeå University. At the end of 2012 CERE consisted of; 5 professors, 3 guest professors, 13 associate professors, assistant professors or post-docs, 16 graduate students, and one communication officer – in total 38 persons. About 37 % of the CERE personnel have SLU as employer; the remainder being employed at UmU.

Important external funding sources for CERE have been Elforsk - Swedish Electrical Utilities' R&D Company, the Swedish Environmental Protection Agency, the Swedish Energy Agency, Formas - The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, and Mistra – The Swedish Foundation for Strategic Environmental Research. Recruitment of post-doc's, and CERE's guest researcher programme, has been generously funded by Handelsbanken Research Foundations.



Selection of Ongoing Projects

On the Economics of Corporate Social Responsibility - Theoretical and Empirical Analysis of Voluntary Overcompliance

(Torsten Söderbergs Forskningsstiftelse, 2013-2014)

An important part of the sustainability debate has been devoted to what companies can do to facilitate sustainable development, so called corporate social responsibility (CSR). Profit maximization doesn't have to be in conflict with social responsibility as this behaviour may be strategic. Many empirical studies focus on the effects on the firm profitability of being socially responsible. To some extent there are also theoretical analyses of CSR, but this research is still in its infancy; more theoretical studies combined with econometric analysis are needed to understand the drivers behind CSR. Also, empirical studies of CSR need a stronger theoretical foundation than what we have seen in literature so far. Specifically, in the context of CSR, we want to examine closer the role of preferences, uncertainty, causality, cost of capital, risk, and public policy. As we will show, these significant elements of economics and finance research agenda are closely linked to CSR.

Environmentally Driven Industrial Transformation? A Study of Swedish Pulp and Paper Industry 1960-1990

(Riksbankens Jubileumsfond, 2011-2014)

We explore the interplay between environmental adaptation, technological development and structural change in Swedish pulp and paper industry in 1960-1990. During this period, the costs for environmental protection in the pulp and paper industry amounted to about 10-15 percentage of total investments. At the same time, significant emission cuts were accomplished. These changes were carried out simultaneously

as the Swedish economy underwent a period of structural crisis and transformation. The high proportion of environmental investments indicates that environmental adaptation interplayed with an ongoing structural change in the industry; effects that have not been explored in research so far. In practice, increasing demands for pollution control, caused by a new regulation in 1969, coincide with a need for structural changes, increased efficiency and lowered energy costs. Our project aims at enhancing the empirical and theoretical understanding of how demands for environmental protection interplayed with technological and structural changes during the late the 20th century.

Carbon Convergence: Driving Forces and Policy Implications (Swedish Energy Agency 2012-2014)

The project has three main objectives. The first aims to synthesize the existing literature on carbon convergence, addressing primarily empirical results and an analysis of its implications for global climate policy implementation. The second is to empirically analyze the existence of carbon convergence for a large number of countries and examine the factors (e.g., technological advances, institutions) that affect regional distribution of emission rates. Lastly we aim to empirically analyze how the various principles for allocation of emission rights can affect different countries' commitments (and hence their willingness to accept global agreements). The project highlights the potential impact of different types of allocation principles. Special attention is devoted to the principles that are based on per capita emissions as well as those related to income level. The project is a collaboration with researchers from CERE, Luleå Technical University and Istanbul Kemerburgaz University.



Meetings

CERE organises two meetings each year in accordance with the CERE main objectives. That is, to link research groups, provide seminars and workshops within the field, constitute a platform for a creative and strong research environment, and develop higher education.

The Ulvön Conference

An open international conference on Environmental Economics, always held adjacent to the Swedish midsummer celebration in June. The key purpose of the yearly conference is to allow PhD students to present their work and to create a forum for research in environmental economics. The conference is always held at Ulvön, a small, old fishing hamlet located at the Swedish east-coast, about 40 km south of Örnsköldsvik. The island has about 40 around the year residents, but is a popular travel destination for tourists during the summer.

Another conference tradition is the tasting of the Swedish delicacy of fermented herring, which was well appreciated by some whilst others are not likely to try it again.

30 people participated in the 2012 meeting, and 19 of them presented their research. Keynote speakers were Professor Gardner Brown, University of Washington, and Professor Michael Hoel, University of Oslo. Brown wondered “How Many Leaves Should Women Sweep”, whilst Hoel talked about the “Second Best Climate Policy”. CERE’s grateful for their participation and contribution to the conference.

In conjunction with the conference, Anne-Sophie Crépin, The Beijer Institute, and Eric Nævdal, the Frisch Centre, gave an interesting short PhD course in dynamic resource management. The course was given the day before the conference and continued with additional sessions at the actual conference. The course provided an introductory overview of several topics at the forefront of resource economic research.

The Ammarnäs Winter Meeting

For the third consecutive year, CERE held its internal winter meeting in the alpine scenery of the small village of Ammarnäs, situated in the Swedish mountains. The 2012 meeting had an external guest and key note speaker, Professor Carmelo Leon, Universidad de las Palmas de Gran Canaria. His presentation about survey techniques and behavioural economics, on the importance of observing what people actually do rather than asking what they think they would do, was very much appreciated.

The weather was perfect for outdoor activities such as snowmobile riding, downhill and cross-country skiing. The latter a favourite of the CERE guest from Gran Canaria.

The meeting is held at Vindelfjällens Research Station, where researchers can gather to create an interdisciplinary meeting place. The aim is to build a knowledge centre for people interested in the relationship among environmentally related issues and developments in society.



A CERRE Working Paper

Firm Trading Behaviour and Transaction Costs in the European Union's Emission Trading System: An Empirical Assessment

The main aim of this study was to investigate trading in emissions permits in the European Union Emissions Trading System (EU ETS). The EU ETS is a cornerstone of the European Union's policy to combat climate change and its key tool for reducing industrial greenhouse gas emissions cost-effectively. The EU ETS is the first – and still by far the biggest – international system for trading greenhouse gas emissions permits. It covers more than 11 000 power stations and industrial plants in 31 countries, as well as airlines.

The uniqueness of this study is that it used a rather unexplored dataset on tradable permit transactions. These data are publicly available on the European Union Transaction Log and are managed by the European Commission. The main feature of the data is that they are published with a five year lag and allow studying in very detail any transfer of tradable permits performed by all ETS firms or other involved parties, such as governments, exchanges, brokers etc.

The central question of our research was to investigate for the presence of trading transactions costs in the first phase (2005-2007) of the EU ETS. In principle, the EU ETS, as with any other emissions-trading programme, is cost-effective (see Montgomery (1972) and Tietenberg (1990), among others). Cost-effectiveness is obtained by allowing full transferability of emissions permits. Whether or not this cost-effective outcome is achieved in practice depends on how efficiently markets

operate. One source of friction in these markets is transaction costs. Some transaction costs can be administrative and some related to trade. This paper focuses on the latter type of costs; trading transaction costs. Trading transaction costs are incurred during market exchanges, including price discovery costs, and costs of writing and enforcing contracts. These costs are typically borne by polluting firms covered under emissions trading.

In particular, we wanted to address the following questions in an empirical framework: What ETS firms decide to trade, and how do they differ from non-traders? Further, how transaction costs affect trading decisions of ETS firms? Are transaction costs significant and do they decrease over time due to learning-by-doing processes? The results of our study show that transaction costs played an important role in the initial years of the EU ETS. These costs were significant in explaining why some ETS firms did not participate in the European emissions trading market and chose to trade allowances indirectly via third parties. Also, it is evident that the importance of transaction costs was declining over time. This study also supports the concerns raised by the European Commission that transaction costs might be excessive for smaller participants.

Jūrate Jaraitė and Andrius Kažukauskas



Personnel and Visitors

Professors

Runar Brännlund
Peichen Gong
Bengt Kriström
Magnus Lindmark
Tommy Lundgren
Karl-Gustaf Löfgren

Associate Professors

Lars Fredrik Andersson
Göran Bostedt

Assistant Professors

Ann-Kristin Bergquist
Kelly de Bruin
Jurate Jaraite
Andrius Kazukauskas
Chandra Kiran B Krishnamurthy
Andrea Mannberg
Per-Olov Marklund
Fredrik Olsson Spjut
Lars Persson
Andrew L Zaeske

Graduate Students

Elin Biström
Erik Brockwell
Catia Cialani
Scott Cole
Mathilda Eriksson
Örjan Furtenback
Erik Geijer
Juan Salvador Inda Diaz
Amin Karimu
Shi Lei

Mikael Levin
Tharshini Thangavelu
Christos Verouchis
Anders Vesterberg
Mattias Vesterberg
Fengjie Yu
Shanshan Zhang
Katarina Östberg

Administration

Mona Bonta Bergman

CERE associates

Professor Shawna Grosskopf
Professor Per-Olov Johansson
Assistant Professor Anton Paulrud

CERE visitors

Professor Carmelo León,
University of Gran Canaria, Spain, April 2012
Professor Erwin Bulte,
Wageningen Agricultural University and Tilburg University,
Holland, June 2012
Professor Gardner Brown,
University of Washington, USA, June 2012
Professor Paul Warde,
University of East Anglia, UK, October 2012

Visit www.CERE.se to;

- sign up for CERE newsletter
- read latest news
- come in contact with staff
- see the CERE calendar
- learn more about CERE projects

Publications and Activities 2011-2012

Professors

Runar Brännlund

Journal articles

Bostedt, G. and Brännlund, R. (2012) Rationality, Fairness and the Cost of Distrust. *Journal of Socio-Economics*, 41, 345-349

Brännlund, R. and Boisvert, R. (2012) The Use of Biomass to Produce Electricity. *Eurochoices* 10, 26-30

Brännlund, R., Carlén, O., Lundgren, T. and Marklund, P-O. (2012) The Costs and Benefits of Intensive Forest Management. *Journal of Benefit-Cost Analysis*, 3(4), DOI: 10.1515/2152-2812.1105

Brännlund, R. and Persson L. (2012) To Tax, or not to Tax? Preferences for Climate Policy Attributes. *Climate Policy*, 12(6), 704-721

Fangmiao, H., Yi-zhong, F., Brännlund, R. and Lundgren, T. (2011) Implications of European Low-carbon Energy Policy Changes for the Swedish and Global Forest Products Sectors: An analysis based on GFPM. *E-Business and E-Government (ICEE) International Conference Publications*

Geijer, E., Bostedt, G. and Brännlund, R. (2011) Damned if you do, Damned if you don't – Reduced Climate Impact vs. Sustainable Forests in Sweden. *Resource and Energy Economics*, 33, 94-106

Johansson, M., Sjöström, M., Karlsson, J. and Brännlund, R. (2012) Is Human Fear Affecting Public Willingness to Pay for the Management and Conservation of Large Carnivores? *Society & Natural Resources*, 6, 610-620

Book

Brännlund, R. and Kriström, B. (2012) *Miljöekonomi*. Second edition, Lund: Studentlitteratur

Reports

Brännlund, R., Karimu, A. and Söderholm, P. (2012) *Elmarknaden och elprisets utveckling före och efter avregleringen: Ekonometriska analyser*. Working paper 2012:14, Centre for Environmental and Resource Economics, Umeå, Sweden

Brännlund, R., Lundgren, T. and Marklund, P-O. (2011) *Environmental Performance and Climate Policy*. Working paper 2011:6, Centre for Environmental and Resource Economics, Umeå, Sweden

Geijer, E., Andersson, J., Bostedt, G., Brännlund, R. and Hjältén, J. (2012) *Is Stump Harvesting a Remedy for the Climate Crisis or a Curse for Biodiversity? An Interdisciplinary Study of Conflicting Goals*. Working Paper 2012:5, Centre for Environmental and Resource Economics, Umeå, Sweden

Vredin, A., Brännlund, R., Ljungqvist, L. and Strömberg, P. (2011) *Miljö, arbete och kapital*. Konjunkturrådets Rapport 2011. Stockholm: SNS förlag

Conferences

2nd Ammarnäs Meeting on Environmental Economics, Organizer

3rd Ammarnäs Meeting on Environmental Economics, Organizer

18th *Ulvön Conference on Environmental Economics*, Organizer

19th *Ulvön Conference on Environmental Economics*, Organizer

Lundgren, T. Climate Policy and Environmental Performance, *EAERE 18th Annual Conference*, Rome, Italy, 29 June-2 July 2011

Invited speaker at Bil Swedens *Climate seminar*, Almedalen, July 2012

Invited speaker at *Biodrivmedel, nu och i framtiden*. Conference arranged by the Royal Swedish Academy of Sciences, June 2012

Invited speaker at *Energy supply – environmental effects, risks and costs*. Conference arranged by the Royal Swedish Academy of Sciences, May 2012

Invited speaker at the *annual meeting of the Swedish Association of Energy Economics*, February 2011

Invited speaker at the conference *Food and Climate*, arranged by The Swedish Board of Agriculture, Stockholm, September 2011

Invited speaker at *Virkesforum 2012*, The Forest Industries Annual conference

External activities

Elected member of the Royal Swedish Academy of Engineering, 2009

Elected member of the The Royal Skyttean Society (Kungliga Skytteanska Samfundet), 2011

Board member of the Swedish Research Council FORMAS Scientific Council, 2010-

Board member of Trafikverket (Swedish Transport Administration), 2010-

Chairman for "Konjunkturinstitutets Vetenskapliga Råd i Miljöekonomi" (The scientific council in environmental economics), 2012-

Co-editor: *The Encyclopedia of Environmental and Resource Economics*, Elsevier. 2010-

Editor in chief: *Journal of Forest Economics*, Elsevier. 2011-

Opponent and examiner on the Licentiate thesis *Including International Aviation in the EU Emissions Trading Scheme*, by Fredrik Kopsch, The Royal Institute of Technology, Stockholm, Sweden, May 2011

Previewer of PhD thesis, University of Helsinki, Finland, August 2011

Previewer of PhD thesis, Lappeenranta University of Technology, Finland, November 2011

Visiting researcher, University of Las Palmas Gran Canaria, November 2011

Peichen Gong

Journal article

Gong, P., Löfgren, K.G., Rosvall, O. (Published online 4 April 2012) Economic Evaluation of Biotechnological Progress: The Effect of Changing Management Behavior. *Natural Resource Modeling*, DOI: 10.1111/j.1939-7445.2012.00118.x

Book chapter

Gong, P. (2011) Optimal rotation. In: Liu, J. (Ed.). *Forest Economics*. 93-142, China Agricultural Press

Reports

Jiang, X., Gong, P., Bostedt, G. and Xu J. (2011) *Impacts of Policy Measures on the Development of State-Owned Forests in Northeast China: Theoretical Results and Empirical Evidence*. Environment for Development Discussion Paper Series EfD DP 11-12, University of Gothenburg, Göteborg

Löfgren, K.G. and Gong, P. (2011) *Economic Modeling in Forestry: Avoiding the Lucas Critique*. Working paper 2011:1, Centre for Environmental and Resource Economics, Umeå.

Conferences

Gong, P. Forestry and Climate Change. Presented at the *9th Forest Economics Forum*, Guangzhou, China, December 10-12, 2011

Gong, P. Impacts of Policy Measures on the Development of State-Owned Forests in Northeast China: Theoretical Results and Empirical Evidence. Presented at the *EAERE 19th Annual Conference*, Prague, Czech Republic, 27-30 June, 2012

Gong, P. Managing Forests to Mitigate Global Warming: Design of a Subsidy Scheme. Presented at the *International Workshop on Forest Economics*, October 2012, Beijing, China

Gong, P. and Löfgren, K.G. Economic Evaluation of Tree Improvement: The Effect of Changing Harvest Behavior. Presented at the *EAERE 18th Annual Conference*, Rome, Italy, 29 June-2 July, 2011

External activities

Editor in chief. *Journal of Forest Economics*, Elsevier. 2010-

Pre-examiner of Doctoral thesis by Sepul Barua, Helsinki University November 2011

Research stay abroad

Beijing Forestry University and Southern China Agricultural University, May 2012

Bengt Kriström

Journal articles

Boman, M., Eriksson, G., Kriström, B. and Mattsson, L. (2011) Moose Hunting Values in Sweden Now and Two Decades Ago: The Swedish Hunters Revisited. *Environmental and Resource Economics*, 50, 515-530

Johansson, P-O. and Kriström, B. (2011) Comment on Burgess and Zerbe: On Bank Market Power and the Social Discount Rate. *Journal of Benefit Cost Analysis*, 2, 1-8

Johansson, P-O and Kriström, B. (2012) Omreglering så att (nästan) alla blir vinnare. Exemplet vattenkraft. *Ekonomisk Debatt*, 8, 49-60

Johansson, P-O. and Kriström, B. (2011) The New Economics of Evaluating Water Projects. *Annual Review of Resource Economics*, 3, 231-254

Kriström, B. (2011) CBA and Forest Economics. *Journal of Forest Economics*, 17, 1-2

Kriström, B. and Löfgren, K.-G. (2011) Sören Wibe in Memoriam. *Journal of Forest Economics*, 17, 105-106

Books

Brännlund, R. and Kriström, B. (2012) *Miljöekonomi*. Second Edition, Lund: Studentlitteratur

Johansson, P-O. and Kriström, B. (eds) (2011) *Modern Cost-Benefit Analysis of Hydropower Conflicts*. Cheltenham: Edward Elgar

Johansson, P-O. and Kriström, B. (2012) *The Economics of Evaluating Water Projects: Hydroelectricity vs. other uses*. Heidelberg: Springer Verlag

Book chapters

Belyaev, Y. and Kriström, B. (2012) Analysis of Contingent Valuation Data with Self-selected Rounded WTP Intervals Collected by Two-steps Sampling Plans. In Kollo, T. (ed.) *Multivariate Statistics: Theory and Applications* 48-60. Statistical Analysis WorldScientific

Johansson, P-O. and Kriström, B. (2011) A Blueprint for a Cost-Benefit Analysis of a Water Use Conflict Hydroelectricity versus Other Uses. In P-O. Johansson and B. Kriström, editors, *Modern CBA and Hydropower*, 35-64. Cheltenham: Edward Elgar

Kriström, B. (2012) Residential Energy Demand, In Shogren, J. (ed.) *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, Elsevier

Paulrud, A., Kriström, B., and Leonardsson, K. (2011) Få stora eller många små hur värderar fiskaren fångsten. In Persson et al, editor, *Ekologi för fiskevård*, 270-283. Stockholm: Sportfiskarna

Reports

Johansson, P-O. and Kriström, B. (2012) *On a New Approach to Social Evaluations of Environmental Projects*. Working Paper 2012:4, Centre for Environmental and Resource Economics, Umeå, Sweden

Johansson, P-O. and Kriström, B. (2012) '−2,+1' or Re-Regulating a River so That (almost) Everyone Wins. An Example from Sweden, Submitted Manuscript

Belyaev, Y. and Kriström, B. (2012) *Two-step Approach to Self-selected Interval Data in Elicitation Surveys*. Working Paper 2012:10, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

2nd Ammarnäs Meeting on Environmental Economics, Organizer

3rd Ammarnäs Meeting on Environmental Economics, Organizer

18th Ulvön Conference on Environmental Economics, Organizer

19th Ulvön Conference on Environmental Economics, Organizer

Invited speaker at *Residential energy demand*, Invited, IIES, Stockholm University, 23 Maj 2012

Invited speaker at *Sensitivity Analysis in CBA*, Swedish EPA, Stockholm, December 7

Invited speaker at *Samhällsekonomiska beslutsunderlag*. ÅSUB dagen, Mariehamn, 23 November, 2012

Invited speaker, *The Centre for Environmental Research (CMF), Yearly meeting*, April 18, 2012.

Invited speaker, Project on Household Behaviour and Environmental Policy, *Fifth Meeting of the Advisory Committee*, OECD, Paris, April 2, 2012.

Invited speaker, Residential demand for green energy, *ENTWINED Workshop on Biofuels Policies*, Hafjell, Norway, 18-19 March, 2012.

External activities

Board member, ENTWINED research Program, MISTRA

Head, Department of Forest Economics

Chair, Expertgroup on Environmental Studies, Ministry of Finance 2007-2012

Consultant, OECD, EPIC-survey 2010-2012

Director, CERE 2010-

Director, PlusMinus Research Program (on hold 2011)

Elected Boardmember, Delegation for Financial Matters, Swedish Radiation Authority 2011-

Elected Member of The Royal Swedish Academy of Agriculture and Forestry, 2011

Expert, Commission on Fossilfree vehicles, 2012-

Expert, Scientific Council of Trafikanalys, 2011-

Member, ENV-SOC Panel, Research Council for Biosciences and Environment

Member, Evaluation Panel of the IIEEE, The Royal Swedish Academy of Sciences 2012-2013

Introduction. Sören Wibe Prize, SLU, December 4, 2012

Invited lecture, Institute of Economic Studies, Environment Center, Charles University in Prague, Prague, April 3, 2012.

Invited lecture, Yearly meeting of the Norwegian Economic Association, January 3, 2012

Invited lecture, La dinamizacion de la investigacion de excelencia y la creacion de valor en un Instituto Universitario, Tides, ULPGC, Spain, 16 Nov, 2011

(RCBE) of the Academy of Finland, 3-4 March 2011

Magnus Lindmark

Journal article

Adams, M., Andersson, L-F., Lindmark, M. and Veprauskaite, E. (2012) Competing Models of Organizational Form: Risk Management Strategies and Underwriting Profitability in the Swedish Fire Insurance Market Between 1903 and 1939. *Journal of Economic History*, 72 (4), 990-1014

Adams, M., Andersson, L-F., Yihui, J. and Lindmark, M. (2011) Mutuality as a Control for Information Ssymmetry: a Historical Analysis of the Claims Experience of Mutual and Stock Fire Insurance Companies in Sweden, 1889 to 1939. *Business History*, 53 (7), 1074-1091

Lindmark, M., Bergquist, A-K. and Andersson, L-F. (2011), Energy Transition, Carbon Dioxide Reduction and Output Growth in the Swedish Pulp and Paper Industry: 1973-2006. *Energy Policy* 39(9), 5449-5456

Reports

Bergquist, A-K., Söderholm, K., Kinneryd, H., Lindmark, M. and Söderholm, P. (2012) *Command-and-Control Revisited. Environmental Compliance and Technical Change in Swedish Industry 1970-1990*. Working paper 2012:2, Centre for Environmental and Resource Economics, Umeå, Sweden

Newspaper article

Söderholm, P., Bergquist, A-K., Lindmark, M. and Söderholm, K. (21 Juni, 2011) Industrins miljökrav rimliga. *Norrbottnenskuriren*, 3

Tommy Lundgren

Journal articles

Brännlund, R., Carlén, O., Lundgren, T. and Marklund, P-O. (2012) The Costs and Benefits of Intensive Forest Management, *Journal of Benefit-Cost Analysis* 3(4), DOI: 10.1515/2152-2812.1105

Fangmiao, H., Yi-zhong, F., Brännlund, R. and Lundgren, T. (2011) Implications of European Low-carbon Energy Policy Changes for the Swedish and Global Forest Products Sectors: An analysis based on GFPM. *E-Business and E-Government (ICEE) International Conference Publications*

Hammar, H., Lundgren, T., Sjöström, M. and Andersson M. (2011) The Kilometer Tax and Swedish Industry, *Applied Economics* 43, 2907-2917

Lundgren, T. (2011) A Micro-economic Model of Corporate Social Responsibility, *Metroeconomica* 62(1), 69-95

Lundgren, T. and Marklund, P-O. (2012) Bioenergy and Carbon Neutrality, *Journal of Forest Economics* 18(3), 175-176

Book chapter

Lundgren, T. *Hållbar utveckling - Från risk till värde* (2011) Eds. L. Hassel, L-O Larsson, E. Nore. One chapter on sustainable development in Swedish industry, Studentlitteratur

Reports

Brännlund, R., Carlén, O., Lundgren, T., and Marklund, P-O. (2011) *The Costs and Benefits of Intensive Forest Management*. Working paper 2011:12, Centre for Environmental and Resource Economics, Umeå, Sweden

Brännlund, R., Lundgren, T. and Marklund, P-O. (2011) *Environmental Performance and Climate Policy*. Working paper 2011:6, Centre for Environmental and Resource Economics, Umeå, Sweden

Färe, R., Grosskopf, S., Lundgren, T., Marklund, P-O. and Zhou, W. (2012) *Pollution Generating Technologies and Environmental Efficiency*. Working paper 2012:16, Centre for Environmental and Resource Economics, Umeå, Sweden

Färe, R., Grosskopf, S., Lundgren, T., Marklund, P-O. and Zhou, W. (2012) *Productivity: Should we Include Bads?* Working paper 2012:13, Centre for Environmental and Resource Economics, Umeå, Sweden

Jaraitė, J., Kažukauskas, A. and Lundgren, T. (2012) *Determinants of Environmental Expenditure and Investment: Evidence from Sweden*, Working paper 2012:7, Centre for Environmental and Resource Economics, Umeå, Sweden

Lundgren, T. (2011) Published commentary on *Ska jag tanka etanol?* (Semida Silveira) FORES Think Tank Study 2011:1, Essays on Environmental Economics and Entrepreneurship

Lundgren, T. and Marklund P-O. (2011) *Assessing the Welfare Effects of Promoting Biomass Growth and the use of Bioenergy – A Simple Back-of-an-envelope Calculation*. Working paper 2011:11, Centre for Environmental and Resource Economics, Umeå, Sweden

Lundgren, T. and Marklund, P-O. (2012) *Environmental Performance and Profits*. Working paper 2012:8, Centre for Environmental and Resource Economics, Umeå, Sweden

Newspaper article

Lundgren, T. and Marklund, P-O. (2012) Bioenergi, klimat och ekonomi, *Miljöforskning – Formas tidning för ett hållbart samhälle*, No 1, March 2012

Lundgren, T. and Marklund, P-O. (2012) Bioenergy, Climate and Economy. *Sustainability – Journal from the Swedish Research Council Formas*, No 2, April 2012

Conference

Lundgren, T. Sustainability in Swedish Industry – the Role of Climate Policy, *MISTRA meeting* in Bilbao, May 2011

Lundgren, T. Environmental Policy and Impact on Environmental and Economic Performance. *Energiutblick* (www.energiutblick.se) Gothenburg March 2012.

Lundgren, T. Climate Policy, Environmental Performance, and Profits. *MISTRA presentation at Schroeder Investment Bank*, London, May 10, 2012.

Lundgren, T. Determinants of Environmental Investment and Expenditure, *EAERE Annual Conference on Environmental and Resource Economics*, Prague, June 2012.

Lundgren, T. Environmental Performance and Profits, *Tsinghua University international meeting on productivity*, July 14-15, 2012.

Lundgren, T. Environmental Performance and Profits, *APPC meeting on productivity*, Bangkok, July 24-27. Special invite to present at plenary session in honour of Rolf Färe's 70th birthday.

External activity

Main opponent at Licentiate seminar for Anna Olsson, Luleå Technical University, May 2011. Thesis title: *Examining the Competition for Forest Resources in Sweden Using Factor Substitution Analysis and Partial Equilibrium Modeling*

Lundgren, T. *Climate Policy, Environmental Performance, and Profits*. Seminar at UC Berkeley, Agricultural and Resource Economics, December 7, 2012.

Research stay abroad

Visiting researcher at the Department of Agricultural and Resource Economics, UC Berkeley, CA 94 720, USA, 2012-11-01 – 2013-01-01. Local host: Professor Peter Berck

Karl-Gustaf Löfgren

Journal articles

Kriström, B. and Löfgren, K.-G. (2011) Sören Wibe in Memoriam. *Journal of Forest Economics*, 17, 105-106

Löfgren, K-G. (2012) Elinor Ostrom och allmänningarnas problem (Elinor Ostrom and the Problem of the Commons). *Ekonomiska Samfundets Tidskrift*, 2, 86-93

Löfgren, K-G. (2012) Forest Economics Before and After 1979 Seen from my Window, *Journal of Forest Economics*, editorial, 18(2), 91-93

Aronsson, T., Cialani, C. and Löfgren, K-G. (2012) Genuine Saving and the Social Costs of Taxation. *Journal of Public Economics*, 96, 211-217

Gong, P., Löfgren, K-G. and Rosvall, O. (Published online 4 April 2012) Economic Valuation of Tree Improvements: The Impact of Changing Harvest Behavior. *Natural Resource Modeling*, DOI: 10.1111/j.1939-7445.2012.00118.x

Li, C-Z. and Löfgren, K-G. (2012) Genuine Saving under Stochastic Growth. *Letters in Spatial and Resource Sciences*, 5, 167-174

Li, C-Z. and Löfgren, K-G (2012) Growth, Pollution and Money-Metric Welfare in Imperfect Markets. *Environmental Economics*, 4, 8-15

Book

Löfgren, K-G. and Li, C-Z. (2011) *Green Accounting and Sustainability*, Cheltenham: Edward Elgar

Book chapter

Löfgren, K-G. and Li, C-Z. (2011) Introduction, in *Green Accounting and Sustainability*, edited by Karl-Gustaf Löfgren and Chuan-Zhong Li, Cheltenham: Edward Elgar

Reports

Löfgren, K-G. (2011) *On Envelope Theorems in Economics: Inspired by a Forgotten Lecture*, Umeå Economic Studies 830, Umeå

Löfgren, K.G. and Gong, P. (2011) *Economic Modeling in Forestry: Avoiding the Lucas Critique*. Working paper 2011:1, Centre for Environmental and Resource Economics, Umeå, Sweden

Li, C-Z. and Löfgren, K-G. (2012) *Genuine Savings under Uncertainty and their Implications for Depletable Resource Management*. Mimeographed Uppsala and Umeå Universities

Newspaper article

Löfgren, K-G. (2012) Ett oslagbart rekord, *Visuellt Västerbottens Idrottshistoriska Tidskrift*

Conferences

Gong, P. and Löfgren, K.G. Economic Evaluation of Tree Improvement: The Effect of Changing Harvest Behavior. Presented at the *EAERE 18th Annual Conference*, Rome, Italy, 29 June-2 July, 2011

Löfgren, K-G. Genuine Saving and the Social Cost of Taxation, *EAERE 18th Annual Conference*, Rome, Italy, 29 June-2 July 2011

Löfgren, K-G. Economic Valuation of Tree Improvements: The Impact of Changing Harvest Behavior, *EAERE 18th Annual Conference*, Rome, Italy, 29 June-2 July 2011

Löfgren, K-G. Samhällsekonomisk analys av genetiska framsteg i svenskt jordbruk, *Swedish University of Agricultural Sciences, honorary doctoral lecture*, Uppsala October 7, 2011

External Activities

Chairman of The Institute of Labour Market - and Human Capital Evaluations (IFAU)

Reviewer of applications at the Swedish Research Council (group: empirical statistics)

Associate Professors

Lars-Fredrik Andersson

Journal article

Lindmark, M., Bergquist, A-K. and Andersson, L-F. (2011), Energy Transition, Carbon Dioxide Reduction and Output Growth in the Swedish Pulp and Paper Industry: 1973-2006. *Energy Policy* 39(9), 5449-5456

Göran Bostedt

Journal articles

Bostedt, G. and Brännlund, R. (2012) Rationality, Fairness and the Cost of Distrust. *Journal of Socio-Economics*, 41, 345-349

Geijer, E., Bostedt, G. and Brännlund, R. (2011) Damned if you do, Damned if you don't – Reduced Climate Impact vs. Sustainable Forests in Sweden. *Resource and Energy Economics*, 33, 94-106

Håkansson, C., Bostedt, G. and Ericsson, G. (2011) Exploring Distributional Determinants of Willingness-To-Pay for Increasing Large Carnivore Stocks in Sweden. *Journal of Environmental Planning and Management*, 54, 577-595

Zabel, A., Pittel, K., Bostedt, G. and Engel, S. (2011) Comparing Conventional and New Policy Approaches for Carnivore Conservation – Theoretical Results and Application to Tiger Conservation. *Environmental and Resource Economics*, 48, 287-301

Reports

Bostedt, G. and Brännlund, R. (2012) *Rationality, Fairness and the Cost of Distrust*. Working paper 2012:6, Centre for Environmental and Resource Economics, Umeå, Sweden

Geijer, E., Andersson, J., Bostedt, G., Brännlund, R. and Hjältén, J. (2012) *Is Stump Harvesting a Remedy for the Climate Crisis or a Curse for Biodiversity? An Interdisciplinary Study of Conflicting Goals*. Working paper 2012:5, Centre for Environmental and Resource Economics, Umeå, Sweden

Håkansson, C., Östberg, K. and Bostedt, G. (2012) *Estimating Distributional Effects of Environmental Policy in Swedish Coastal Environments – A Walk along different Socio-economic Dimensions*. Working paper 2012:18, Centre for Environmental and Resource Economics, Umeå, Sweden

Jiang, X., Gong, P., Bostedt, G. and Xu, J. (2011) *Impacts of Policy Measures on the Development of State-Owned Forests in Northeast China: Theoretical Results and Empirical Evidence*. Environment for Development Discussion Paper Series EfD DP 11-12, University of Gothenburg, Göteborg

Widmark, C., Bostedt, G., Andersson, M. and Sandström, C. (2011) *Measuring Transaction Cost incurred by Landowners in Multiple Land-Use Situations*. Working Report No 376, Department of Forest Economics, Swedish University of Agricultural Sciences, Umeå, Sweden

Östberg, K., Håkansson, C., Hasselström, L. and Bostedt, G. (2011) *Benefit Transfer for Environmental Improvements in Coastal Areas: General vs. Specific Models*. Working paper 2011:2, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Bostedt, G. Outcomes and Determinants of Success of a Performance Payment Scheme for Carnivore Conservation. Invited paper presented at *EAERE 18th Annual Conference*, Rome, Italy, 29 June-2 July 2011

Bostedt, G. Goal Conflicts and Benefit-Cost Analysis – The Case of Sweden's National Environmental Objectives, invited paper presented at *the 4th annual conference of the Society for Benefit-Cost Analysis*, Washington DC, USA, October 2011

Bostedt, G. Measuring Transaction Costs incurred by Pastoralist Users in Multiple Land-Use Situations, invited paper presented at the *18th International Symposium on Society and Resource Management (ISSRM)*, Edmonton, Canada, June 2012

External activities

Grading committee member, Godwin Kofi Vondolia's Ph.D. thesis, Department of Economics, University of Gothenburg, May 26, 2011

Guest lecturer, December 14 to 21, 2012, graduate/masters course in resource economics, Beijing Forestry University, Beijing, China

Invited speaker at *Forum för samhällsekonomisk analys*, arranged by the Swedish Environmental Protection Agency, November 2012

Assistant Professors

Ann-Kristin Bergquist

Journal article

Bergquist, A-K. and Söderholm, K. (2012) Svenska skogsindustrins samarbete i miljöfrågan: en framgångssaga? *Nordisk Pappershistorisk Tidskrift* (4), 3-6

Lindmark, M., Bergquist, A-K. and Andersson, L-F. (2011) Energy Transition, Carbon Dioxide Reduction and Output Growth in the Swedish Pulp and Paper Industry: 1973-2006, *Energy Policy*, 39(9): 5449-5456

Söderholm, K. and Bergquist, A-K. (2012) Firm-collaboration and environmental adaptation. The case of the Swedish pulp- and paper industry 1900-1990, *Scandinavian Economic History Review*, 2 (60) 183-211

Book chapter

Bergquist, A-K. (2011) Managing Industrial Environmental Protection – the Swedish Case 1970-1980. In: Lönnborg, M., Rytkönen, R. (Ed.) *Business History in Sweden*, 438-456. Vilnius: Gidlunds Förlag

Reports

Bergquist, A-K. and Marklund, P-O. (2011), *Erfarenheter av styrmedel på miljöområdet - en kunskaps- och forskningsöversikt*. Swedish Work Environment Authority, Report 2011:14

Bergquist, A-K., Söderholm, K., Kinneryd, H., Lindmark, M. and Söderholm, P. (2012) *Command-and-Control Revisited. Environmental Compliance and Technical Change in Swedish Industry 1970-1990*. Working paper 2012:2, Centre for Environmental and Resource Economics, Umeå, Sweden

Newspaper article

Söderholm, P., Bergquist, A-K., Lindmark, M. and Söderholm, K. (21 Juni, 2011) Industrins miljökrav rimliga. *Norrbottenskuriren*, 3

Conferences

Bergquist, A-K. Paper: Environmental adaptation, technology development and competition. *European Business History Association conference*, Paris 30 Aug-1 Sep 2012

Bergquist, A-K. Svenska skogsindustrins samarbete i miljöfrågan: en framgångssaga? *Nordisk Pappershistorisk Konferens*, Östanå, Sweden, 15 juni, 2012

External activities

The CEBC Halloran Prize in the History of Corporate Responsibility, 2011, for the conference paper; The Making of a Green Innovation System: The Swedish Institute for Water and Air Protection and the Swedish Pulp and Paper Industry from the 1960s to the 1980s

Visiting reseracher at Harvard Business School, Boston, USA. 2012-09-01—2012-12-01

Kelly de Bruin

Journal articles

Agrawala, S., Bosello, F., Carraro, C., de Bruin, K.C., de Cian, E., Dellink, R.B. and Lanzi, E. (2011). Plan or React? Analysis of Adaptation Costs and Benefits using Integrated Assessment Models *Climate Change Economics* 2(3), 175-208

de Bruin, K. C. and Dellink, R. B. (2011) How Harmful are Restrictions on Adapting to Climate Change? *Global Environmental Change* 21, 34-45

Nagashima, M., Weikard, H.P., de Bruin, K.C. and Dellink, R.B. (2011) International Climate Agreements under Induced Technological Change, *Metroeconomica* 62 (4) 612-634

Reports

de Bruin, K.C., Weikard, H.P. and Dellink, R.B. *The Role of Proactive Adaptation in International Climate Change Mitigation Agreements*, Working paper 2011:9, Centre for Environmental and Resource Economics, Umeå, Sweden

de Bruin, K.C. *Distinguishing Between Proactive (Stock) and Reactive (Flow) Adaptation*, Working paper 2011:8, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

de Bruin, K.C. Distinguishing between Proactive and Reactive adaptation in Integrated Assessment modelling. *International Energy Workshop*, Stanford university, 6-8 July 2011

de Bruin, K. C. Workshop on Climate Adaptation, *International Energy Workshop* 2012, Cape Town, South Africa

de Bruin, K. C. *Improving the connection between empirical research and integrated assessment models* NBER, Boston, USA

de Bruin, K.C. The Role of Proactive Adaptation in International mitigation agreements. Game Theory Practice, *Riverside*, California, 11-12 July 2011

Jūratė Jaraitė

Journal articles

Jaraitė J. and Di Maria, C. (2011) Efficiency, Productivity and Environmental Policy: A Case Study of Power Generation in the EU. *Energy Economics*, 34, 1557-1568

Jaraitė, J. and Kažukauskas, K. (2012) The Effect of Mandatory Agro-environmental Policy on Farm Fertiliser and Pesticide Expenditure. *Journal of Agricultural Economics*, 63, 656-676

Reports

Jaraitė, J. and Kažukauskas, A. (2012) *Firm Trading Behaviour and Transaction Costs in the European Union's Emissions Trading System: An Empirical Assessment*. Working paper 2012:9, Centre for Environmental and Resource Economics, Umeå.

Jaraitė, J. and Kažukauskas, A. (2011) *The Effect of Mandatory Agro-Environmental Policy on Farm Environmental Performance*. Working paper 2011:13, Centre for Environmental and Resource Economics, Umeå.

Jaraitė, J., Kažukauskas, A. and Lundgren, T. (2012) *Determinants of Environmental Expenditure and Investment: Evidence from Sweden*. Working paper 2012:7, Centre for Environmental and Resource Economics, Umeå.

Kažukauskas, A. and Jaraitė, J. (2011) *The Profitability of Power Generating Firms and Policies Promoting Renewable Energy*. Working paper 2011:14, Centre for Environmental and Resource Economics, Umeå.

Conference

Did the EU ETS Make a Difference? *EAERE 18th Annual Conference*, Rome, Italy, 29 June-2 July 2011

Invited speaker at *The Annual EUI Climate Policy Conference, Florence (IT)*. Firm Trading Behaviour and Transaction Costs in the European Union's Emissions Trading System: an Empirical Assessment, October 2012

Research stay

University of Gothenburg, August 20-24, 2012

Andrius Kazukauskas

Journal article

Jaraitė, J. and Kažukauskas, A. (2012) The Effect of Mandatory Agro-environmental Policy on Farm Fertiliser and Pesticide Expenditure. *Journal of Agricultural Economics* 63, 656-676

Reports

Jaraitė, J. and Kažukauskas, A. (2012) *Firm Trading Behaviour and Transaction Costs in the European Union's Emissions Trading System: an Empirical Assessment*. Working paper 2012:9, Centre for Environmental and Resource Economics, Umeå, Sweden

Jaraitė, J., Kažukauskas, A. and Lundgren, T. (2012) *Determinants of Environmental Expenditure and Investment: Evidence from Sweden*. Working paper 2012:7, Centre for Environmental and Resource Economics, Umeå, Sweden

Jaraitė, J. and Kazukauskas, A. (2011) *The Effect of Mandatory Agro-Environmental Policy on Farm Environmental Performance*. Working paper 2011:13, Centre for Environmental and Resource Economics, Umeå, Sweden

Kazukauskas, A. and Jaraitė, J. (2011) *The Profitability of Power Generating Firms and Policies Promoting Renewable Energy*. Working paper 2011:14, Centre for Environmental and Resource Economics, Umeå, Sweden

Kazukauskas, A., Newman, C., Clancy, D. and Sauer, J. (2011) *The Effect of Decoupled Direct Payments on Farm Exit Behaviour: Quasi-experimental Evidence from Europe*. The Institute for International Integration Studies Discussion Paper Series, IIS

Kazukauskas, A., Newman, C. and Sauer, J. (2011) *CAP Reform and its Impact on Structural Change and Productivity Growth: A Cross Country Analysis*. Trinity Economics Papers, Department of Economics, Trinity College, Dublin

Conferences

The Profitability of Power Generating Firms and Policies Promoting Renewable Energy, *9th International Conference of Young Scientists on Energy Issues (CYSENI)*, Kaunas. May 2012.

Presentation of “Understanding farm exit behaviour post CAP reform: a quasi-experimental approach” paper in the *Irish Economic Association (IEA) conference*, Limerick, Ireland. 2011

Presentation of “CAP reform and its impact on structural change and productivity growth: a cross country analysis” paper in the *Irish Economic Association (IEA) conference*, Limerick, Ireland, 2011

Firm trading behaviour and transaction costs in the European Union’s Emissions Trading System: an empirical assessment. *The Annual EUI Climate Policy Conference, Florence (IT)*. October 2012.

The Profitability of Power Generating Firms and Policies Promoting Renewable Energy. *The European Energy Market 9th conference (EEM), Florence*. May 2012.

Chandra Kiran B Krishnamurthy

Journal article

Wonghee, T. H., Krishnamurthy, C. K. and Weber, Richard (2011) Concavity and Monotonicity Properties in a Groundwater Management Model, *Naval Research Logistics (NRL)* 58(7), 670-675

Book

Krishnamurthy, C. K. (2011) *Essays on Climatic Extremes, Agriculture and Natural Resource Management*. PhD thesis, New York: Columbia University

Report

Krishnamurthy, C. K. (2012) *Structural Properties of Stochastic Groundwater Models*, Working paper 2012:19, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Determinants of Residential Demand for Green Energy, *IAEE European Energy Conference*, Venice, Italy, September 9-12, 2012

Distributional impacts of Climate Change on Indian Agriculture, *AAEA Agricultural and Applied Economics Association 2012*, Seattle, USA, August 12-14, 2012

Distributional impacts of Climate Change on Indian Agriculture, *EAERE 19th Annual Conference*, Prague, Czech Republic, June 27-29 2012

Invited speaker at *Workshop on Biofuels policies*, Residential Demand for Green Energy, Hajfell Resort, Lillehammer, Norway, March 18-20, 2012

The Distributional Impacts of Climate Change on Indian Agriculture: A Quantile Regression Approach, *Jan 2011, Sloan School of Management, MIT; June 2011; National Institute for Advanced Studies and The Ashoka Trust for Ecology and Environment, Bangalore, India; Jan 2012, Madras school of Economics, Madras, India*

Research stay abroad

Visiting Researcher, Madras School of Economics, Madras, India: Dec 2011-Jan 2012

Andrea Mannberg

Journal article

Bezabih, M., Köhlin, G. and Mannberg, A. (2011) Trust, Tenure Insecurity, and Land Certification in Rural Ethiopia, *Journal of Socio-Economics*, 40(6), 833-843

Mannberg, A. (2012), Risk and Rationalization - The Role of Affect and Cognitive Dissonance for Sexual Risk Taking, *European Economic Review*, 56(6), 1325–1337

Conference

CSAE – *Conference on Sub-Saharan African Economies*, (2012), Oxford- presentation of: "The Role of Land Certification in Reducing Gender Gaps in Productivity in Rural Ethiopia" co-authored with Mintewab Bezabih and Stein Holden

External activity

Uma Lele Best Paper on Gender Issues: "The Role of Land Certification in Reducing Gender Gaps in Productivity in Rural Ethiopia", co-authored with Mintewab Bezabih and Stein Holden, 2012

Per-Olov Marklund

Journal articles

Brännlund, R., Carlén, O., Lundgren T. and Marklund, P-O. (2012) The Cost and Benefits of Intensive Forest management. *Journal of Benefit-Cost Analysis*, 3(4), DOI: 10.1515/2152-2812.1105

Lundberg, S. and Marklund, P-O. (2011) The Pivotal Nature of Award Methods in Green Public Procurement, *Environmental Economics* 2, 61-70

Lundgren, T. and Marklund, P-O. (2012). Bioenergy and Carbon Neutrality. *Journal of Forest Economics*, 18(3): 175-176

Rudholm, N., Nordmark, A. and Marklund, P-O. (2011) Does Competition Increase Economic Efficiency in Swedish County Councils? *Advances in Management and Applied Economics* 1(2), 77-91

Reports

Bergquist, A-K. and Marklund, P-O. (2011) *Erfarenheter av styrmedel på miljöområdet – En kunskaps- och forskningsöversikt*, Swedish Work Environment Authority, Report 2011:4

Brännlund, R., Carlén, O., Lundgren, T. and Marklund, P-O. (2011) *The Costs and Benefits of Intensive Forest Management*, Working paper 2011:12, Centre for Environmental and Resource Economics, Umeå, Sweden

Brännlund, R., Lundgren, T. and Marklund, P-O. (2011) *Environmental Performance and Climate Policy*. Working paper 2011:6, Centre for Environmental and Resource Economics, Umeå, Sweden

Färe, R., Grosskopf, S., Lundgren, T., Marklund, P-O. and Zhou, W. (2012) *Polluting Generating Technologies and Environmental Efficiency*. Working paper 2012:16, Centre for Environmental and Resource Economics, Umeå, Sweden

Färe, R., Grosskopf, S., Lundgren, T., Marklund, P-O. and Zhou, W. (2012) *Productivity: Should we Include Bads?* Working paper 2012:13, Centre for Environmental and Resource Economics, Umeå, Sweden

Lundberg, S. and Marklund, P-O. (2012) *Green Public Procurement as an Environmental Policy Instrument: Cost Effectiveness*. Umeå Economic Studies No. 847, Department of Economics, Umeå School of Business and Economics, Umeå University, Sweden

Lundgren, T. and Marklund, P-O. (2011) *Assessing the Welfare Effects of Promoting Biomass Growth and the Use of Bioenergy – A Simple Back-of-an-Envelope Calculation*, Working paper 2011:11, Centre for Environmental and Resource Economics, Umeå, Sweden

Lundgren, T. and Marklund, P-O. (2012) *Environmental Performance and Profits*. Working paper 2012:8, Centre for Environmental and Resource Economics, Umeå, Sweden

Newspaper articles

Lundgren, T. and P-O. Marklund (2012) Bioenergi, klimat och ekonomi, *Miljöforskning – Formas tidning för ett hållbart samhälle*, No 1, March 2012

Lundgren, T. and P-O. Marklund (2012) Bioenergi, Climate and Economy. *Sustainability – Journal from the Swedish Research Council Formas*, No 2, April 2012

Fredrik Olsson Spjut

Journal article

Book review: Isacson, M., Lundmark, M., Mörner, C. and Orre, I. (ed), *Fram träder Bergslagen. Nytt ljus över en gammal region*, Bergslagsforskning III, Mälardalens högskola, IPR, 2009. *Historisk tidskrift*, 2011:5.

Report

Olsson-Spjut, F., Brandén G., Forsgren, A. and Holmström, M. (2011) *39 000 anställningar till och med 2020. En studie av rekryteringsbehovet i Västerbottens län*, Cerum Report, Nr. 26, Umeå University, Umeå, Sweden

Lars Persson

Journal articles

Aronsson, T. and Persson, L. (2012) Decentralized Fiscal Federalism Revisited: Optimal Income Taxation and Public Goods under Horizontal Leadership. *Economics letters*, 117(1), 223-226

Brännlund, R. and Persson, L. (2012) To Tax, or not to Tax? Preferences for Climate Policy Attributes. *Climate policy* 12(6), 704-721

Persson, L. (2012) Environmental Policy and Lobbying in Small Open Economies. *Resource and Energy Economics* 43(1), 24-35

Report

Ek, K., Johansson, M., Persson, L. and Waldo, Å. (2012) *Kommunerna och vindkraften*. Environmental psychology monographs No. 22. Architecture and built environmental faculty of engineering, Lund University ISSN 0280-8269

Conferences

Wind Farms - Where and how to put them? *The Ulvön Conference on Environmental Economics*, Ulvön, Sweden, 2012

Environmental policy, decentralized leadership and horizontal commitment power. PET 12, *The association for public economic theory 13th annual conference*, Taipei, Taiwan, 2012

Andrew Zaeske

Book

Zaeske, A. L. (2011) *Macroeconomic Analyses of Efficiency and Water Use in the United States*. PhD thesis, Los Angeles: University of California

Report

Zaeske, A. (2012). *Aggregate Technical Efficiency and Water Use in U.S. Agriculture*. Working paper 2012:11, Centre for Environmental and Resource Economics, Umeå, Sweden

Conferences

Zaeske, A. (2012) An Investigation of Spatial Externalities in Water Use. *The 19th Ulvön Conference*, Ulvön, Sweden, June 19-21

Zaeske, A. (2012) Measuring Efficiency in Wholesale Energy Production. *The 12th IAEE European Energy Conference*, Venice, Italy, September 9-12

Zaeske, A. (2012) Water Use and Agricultural Production: A County Level Analysis of the Continental United States. *U.S. EPA Technical Workshop: Importance of Water*, Washington, D.C., September 19, 2012.

Graduate Students

Erik Brockwell

Research stay abroad

18th of August to the 18th of December, Visiting Scholar at the University of California, Berkeley

Catia Cialani

Journal article

Aronsson, T., Cialani, C. and Löfgren, K.-G. (2012) Genuine Saving and the Social Cost of Taxation. *Journal of Public Economics*, Elsevier Science, 96, 211–217

Conference

Genuine Saving and the Social Cost of Taxation. Presented at European Association of Environmental and Resource Economists, *EAERE 18th Annual Conference*, Rome, Italy, 29 June-2 July 2011

External activities

Referee for the Journal Ecological Modelling, Elsevier Science

EAERE Summer school, Financial Crisis, Labour Markets and Institutions, Paper presented: Cialani, C. and Lundberg, J. *Growth, Migration and Unemployment Across Swedish Municipalities*. University of Roma Tre, Department of Economics, Faculty of Economics, Rome, Italy, 4-9 July, 2011

Scott Cole

Journal article

Cole, S. G. (2011) Wind Power Compensation is not for the Birds: an Opinion from an Environmental Economist. *Restoration Ecology* 19 (2), 147–153

Book

Cole, S. (2012) *Environmental Compensation is not for the Birds: Assessing social welfare impacts of resource-based environmental compensation*. Ph.D Thesis, Department of Forest Economics, SLU Umeå. May. ISBN 978-91-576-7665-8. Advisor: Prof. Bengt Kriström.

Conferences

Cole, Scott. (2011) Ex Post Compensation for WTE Impacts at the Smøla Wind Farm: An Application of Equivalency Analysis (EA). *Conference on Windpower and Wildlife*, Trondheim, Norway, May

Cole, S. (2011) Scaling Resource-based Compensation with Equivalency Analysis: Are we Restricting Social Welfare? Paper presented at the *Society for Benefit Cost Analysis Annual Meeting*, Washington, DC, October 21

Cole, S. (2011) Trading Loss for Gain: What Does an Economist have to say About Environmental Compensation? Organizer and speaker at the *Conference on Environmental Compensation Conference*, Umeå, Sweden, April.

Fejes, J., Cole, S. and Hasselström, L. (2011) The REMEDE Project: A Useful Framework for Assessing Non-Market Damages from Oil Spills? Paper accepted for presentation at the *International Oil Spill Conference*, Portland, Oregon, USA, May.

Erik Geijer

Journal article

Geijer, E., Bostedt, G. and Brännlund, R. (2011) Damned if you do, Damned if you don't - Reduced Climate Impact vs. Sustainable Forests in Sweden. *Resource and Energy Economics*, 33, 94-106

Report

Geijer, E., Andersson, J., Bostedt, G., Brännlund, R. and Hjältén, J. (2012) *Is Stump Harvesting a Remedy for the Climate Crisis or a Curse for Biodiversity? An Interdisciplinary Study of Conflicting Goals*. Working Paper 2012:5, Centre for Environmental and Resource Economics, Umeå, Sweden

Conference

Is Stump Harvesting a Remedy for the Climate Crisis or a Curse for Biodiversity? An Interdisciplinary Study of Conflicting Goals. *EAERE 18th Annual Conference, Rome, Italy, 29 June-2 July 2011*

Amin Karimu

Report

Brännlund, R., Karimu, A. and Söderholm, P. (2012) *Elmarknaden och Elprisets Utveckling före och efter Avregleringen: Ekonometriska Analyser*. Working paper 2012:14, Centre for Environmental and Resource Economics, Umeå, Sweden

Katarina Östberg

Journal article

Östberg, K., Hasselström, L. and Håkansson, C. (2012) Non-market Valuation of the Coastal Environment - Uniting Political Aims, Ecological and Economic Knowledge. *Journal of Environmental Management*, 110, 166-178

Reports

Östberg, K., Håkansson, C., Hasselström, L. and Bostedt, G. (2011) *Benefit Transfer for Environmental Improvements in Coastal areas: General vs. Specific Models*. Working paper 2011:2, Centre for Environmental and Resource Economics, Umeå, Sweden

Håkansson, C., Östberg, K. and Bostedt, G. (2012) *Estimating Distributional Effects of Environmental Policy in Swedish Coastal Environments – A Walk along Different Socio-economic Dimensions*. Working paper 2012:18, Centre for Environmental and Resource Economics, Umeå, Sweden

Conference

Östberg, K., Håkansson, C., Hasselström, L., Bostedt, G. (2011) Benefit Transfer for Environmental Improvements in Coastal areas: General vs. Specific Models. *EAERE 18th Annual Conference*, Rome, Italy, 29 June-2 July 2011

Associates of CERE

Professor Shawna Grosskopf

Journal articles

Färe, R., Grosskopf, S., Margaritis, D. and Weber, W.L. (2012) Technological Change and Timing Reductions in Greenhouse Gas Emissions, *Journal of Productivity Analysis*, 37(3), 205-216.

Färe, R., Grosskopf, S. and Tremblay, V. (2012) Market Power and Technology, *Review of Industrial Organization*, RIO Series Market Structure and Efficiency, 1-8

Färe, R., Grosskopf, S., Pasurka, C. and Weber, W.L. (2012) Substitutability Among Undesirable Outputs, *Applied Economics*, 44(1), 39-47

Färe, R., Grosskopf, S. and Margaritis, D. (2012) Pricing Decision-Making Units, *Journal of the Operational Research Society*, 1-3

Reports

Färe, R., Grosskopf, S., Lundgren, T., Marklund, P-O. and Zhou, W. (2012) *Pollution Generating Technologies and Environmental Efficiency*. Working paper 2012:16, Centre for Environmental and Resource Economics, Umeå, Sweden

Färe, R., Grosskopf, S., Lundgren, T., Marklund, P-O. and Zhou, W. (2012) *Productivity: Should we Include Bads?* Working paper 2012:13, Centre for Environmental and Resource Economics, Umeå, Sweden

Professor Per-Olov Johansson

Journal articles

Johansson, P-O. and Kriström, B. (2011) Comment on Burgess and Zerbe: On Bank Market Power and the Social Discount Rate. *Journal of Benefit Cost Analysis*, 2, 1-8

Johansson, P-O. and Kriström, B. (2012) Omreglering så att (nästan) alla blir vinnare. Exemplet vattenkraft. *Ekonomisk Debatt*, 8, 49-60

Johansson, P-O. and Kriström, B. (2011) The New Economics of Evaluating Water Projects. *Annual Review of Resource Economics*, 3, 231-254

Books

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External expert on Csil's - Centre for Industrial Studies, Milan, Italy –evaluation of EU financed infrastructure projects

Assistant Professor Anton Paulrud

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