

## ANNA BERGECK

**PERSONAL INFORMATION**

**NAME**  
Anna Margareta Bergeck (born: Johnson)

**BIRTH DATE AND PLACE**  
1973-08-23 in Ösmo, Sweden

**NATIONALITY**  
Swedish

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**HIGHER EDUCATION / DEGREES**

**“DOCENT”, FACULTY OF SCIENCE AND ENGINEERING, LINKÖPING UNIVERSITY, MARCH 2008**  
Field of study: Industrial Organization / Industriell organisation

**PHD (TEKNOLOGIE DOKTOR), CHALMERS UNIVERSITY OF TECHNOLOGY, JUNE 2002**  
Field of study: Technology Management / Teknologimanagement  
*Thesis title: “Shaping and Exploiting Technological Opportunities: The Case of Renewable Energy Technology in Sweden”*

**LICENTIATE OF ENGINEERING, CHALMERS UNIVERSITY OF TECHNOLOGY, JUNE 1999**  
Field of study: Technology Management / Teknologimanagement  
*Thesis title: “Renewable Energy Technology: A New Swedish Growth Industry?”*

**MSC (CIVILINGENJÖR), CHALMERS UNIVERSITY OF TECHNOLOGY, JANUARY 1997**  
Field of study: Industrial Engineering and Management / Industriell ekonomi  
*Thesis title: “The Zero Emission Vehicle Mandate: A Starting Engine for Electric Vehicle Development?”*

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**WORK HISTORY**

**FULL PROFESSOR (CHAIR), DEPARTMENT OF ENERGY AND ENVIRONMENT / DEPARTMENT OF TECHNOLOGY MANAGEMENT AND ECONOMICS, CHALMERS UNIVERSITY OF TECHNOLOGY**  
Field of study: Innovation systems and technology policy  
October 2016 – present

**ASSOCIATE PROFESSOR (BITRÄDANDE PROFESSOR), DEPARTMENT OF MANAGEMENT AND ENGINEERING, LINKÖPING UNIVERSITY**  
Field of study: Industrial management – innovation in and between firms  
April 2015 – September 2016

**FØRSTEAMANUENSIS (20%), CENTRE FOR TECHNOLOGY, INNOVATION AND CULTURE, UNIVERSITY OF OSLO**  
Field of study: Innovation studies  
September 2011 – June 2014

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**SENIOR LECTURER (UNIVERSITETSLEKTOR), DEPARTMENT OF MANAGEMENT AND ECONOMICS / DEPARTMENT OF MANAGEMENT AND ENGINEERING, LINKÖPING UNIVERSITY**

Field of study: Industrial management – innovation in and between firms  
April 2004 – March 2015 ("oavlönad docent" from March 2008)

**SUBSTITUTE SENIOR LECTURER, DEPARTMENT OF MANAGEMENT AND ECONOMICS, LINKÖPING UNIVERSITY (50-100%)**

Field of study: Industrial management (Industriell organisation)  
September 2002 – March 2004

**COMMISSION SECRETARY, THE EXPERT COMMISSION ON LONG-TERM ENERGY RESEARCH, SWEDISH MINISTRY OF INDUSTRY (50-100%)**

July 2002 – August 2003

**RESEARCHER, INSTITUTE FOR MANAGEMENT OF INNOVATION AND TECHNOLOGY (IMIT)**

January 1997 – June 2002

**PHD CANDIDATE, DEPARTMENT FOR INDUSTRIAL DYNAMICS, CHALMERS UNIVERSITY OF TECHNOLOGY**

Field of study: Technology management  
January 1997 – April 2002

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**ACADEMIC  
MANAGEMENT  
EXPERIENCES**

**VICE HEAD OF DEPARTMENT, DEPARTMENT OF TECHNOLOGY MANAGEMENT AND ECONOMICS, CHALMERS UNIVERSITY OF TECHNOLOGY**

April 2018 – present (20%)

**ASSOCIATE & VICE DEAN, FACULTY OF SCIENCE AND ENGINEERING, LINKÖPING UNIVERSITY**

January 2012 – September 2016 (50%)

**MEMBER OF THE JUNIOR FACULTY BOARD, FACULTY OF SCIENCE AND ENGINEERING, LINKÖPING UNIVERSITY**

2007-2009

**MEMBER OF THE DEPARTMENT BOARD, DEPARTMENT OF MANAGEMENT AND ECONOMICS, LINKÖPING UNIVERSITY**

2006-2006

**PHD STUDENT REPRESENTATIVE, UNIVERSITY MANAGEMENT GROUP, CHALMERS UNIVERSITY OF TECHNOLOGY**

2001-2002

**PHD STUDENT REPRESENTATIVE, REKTOR'S MANAGEMENT GROUP, CHALMERS UNIVERSITY OF TECHNOLOGY**

2000/01

**PHD STUDENT REPRESENTATIVE, BOARD OF CHALMERS UNIVERSITY OF TECHNOLOGY AB**

1998/99

**VICE PRESIDENT (1997/98) AND PRESIDENT (1998/99) OF THE PHD STUDENT ASSOCIATION BOARD, CHALMERS UNIVERSITY OF TECHNOLOGY**

1997/98-1998/99

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## SCIENTIFIC QUALIFICATIONS

**RESEARCH PROFILE** My main field of research is Innovation Studies, with a focus on technology and industry dynamics, innovation policy and innovation strategy. The overall aim of my research is to understand under what conditions mature companies and industries can remain innovative, how new technologies can enter and diffuse in sectors that are in need of renewal, and how policy should be designed, implemented and evaluated to facilitate innovation and transformation. One of the main outputs of this research is the so-called “functions of technological innovation systems” framework, which has been used by other researchers in over 200 empirical studies to date as well as by policy makers in several countries. While much of my work is focused on the level of systems, industries and sectors, I am also interested in the strategies and roles of different types of actors in innovation, diffusion and transition processes.

### SCIENTIFIC PUBLICATION (OVERVIEW)

#### PUBLICATION PROFILES

ORCID: 0000-0003-1952-902X  
Web of Science Researcher ID: A-3279-2009  
Scopus Author ID: 6505948234

#### CITATION DATA

h-index: 20 (WoS); 22 (Scopus); 31 (Google Scholar)  
Total number of citations: 3166 (WoS); 3655 (Scopus); 10334 (Google Scholar)  
Field-Weighted Citation Impact (Scopus): 11.70  
Publications in top 10% most cited worldwide (Scopus): 25%

#### MAIN PUBLICATION OUTLETS (IN ORDER OF RELEVANCE/IMPORTANCE)

Research Policy, Industrial and Corporate Change, Environmental Innovation and Societal Transitions, Energy Policy, Technovation, Technology Analysis & Strategic Management, Journal of Cleaner Production.

#### NUMBER OF PUBLICATIONS (SEE ALSO THE APPENDED PUBLICATION LIST)

Peer reviewed journal articles: 30, whereof:  
- 4 in level 4\* journals, 6 in level 3 journals and 12 in level 2 journals (AJG)  
- 2 singled-authored and 7 first-authored  
- 5 in international collaboration

Book chapters: 16, whereof:  
- 4 singled-authored  
- 3 in international collaboration

### SUCCESSFUL APPLICATIONS FOR FUNDING

#### ELECTRICITY RETAILERS AND SOLAR POWER DIFFUSION: STRATEGIES AND CRITICAL TRADE-OFFS (2019-2021)

Funder: Swedish Energy Agency  
Budget: 2.7 MSEK  
Role: Main applicant (Chalmers University of Technology)

#### **SWEDISH TRANSFORMATIVE INNOVATION POLICY PLATFORM (STIPP) (2018-2022)**

Funder: Vinnova (Sweden's innovation agency)

Budget: 33.3 MSEK (Chalmers's share: 6.9 MSEK)

Role: Co-applicant (Chalmers University of Technology) – with Lea Fuenfschilling & Teis Hansen (Lund University), Hans Hellsmark (Chalmers), Jerker Moodysson, Kersti Karltorp & Tobias Fridholm (Jönköping University), and Harald Rohrer (Linköping University)

#### **POLICYMAKERS' CAPACITY TO DEVELOP A SUSTAINABLE BIOECONOMY (2018-2020)**

Funder: Formas (Swedish Research Council for Sustainable Development)

Budget: 4.9 MSEK

Role: Main applicant (Chalmers University of Technology) – with Johanna Ulmanen (RISE) and Hans Hellsmark (Chalmers)

#### **GREENING THE FLEET - SUSTAINABILITY TRANSITIONS IN THE MARITIME SHIPPING SECTOR (2017-2020)**

Funder: Norwegian Research Council

Budget: 11.8 MNOK (my share: 0.7 MNOK)

Role: Co-applicant (Chalmers University of Technology) – with Tone Merethe Aasen & Markus Steen (SINTEF), Olav Wicken (University of Oslo), Roger Sørheim (NTNU), and Teis Hansen (Lund University)

#### **BIOEKONOMI 2.0 – BÄTTRE VALORISERING AV RESTSTRÖMMAR (2017-2020)**

Funder: Vinnova (Sweden's innovation agency)

Budget: 2.1 MSEK (Chalmers's share: minor)

Role: Co-applicant (minor part) (Chalmers University of Technology) – with Erik Furusjö, Louise Staffas & Roman Hackl (IVL Swedish Environmental Research Institute), Stefan Heyne (Chalmers industriteknik), and Johanna Ulmanen & Nils Jonsson (RISE).

#### **INTERACTIONS BETWEEN BUSINESS, ENERGY AND INNOVATION STRATEGIES IN THE PULP AND PAPER INDUSTRY (2017-2019)**

Funder: Swedish Energy Agency

Budget: 4.5 MSEK

Role: Co-applicant (Linköping University / Chalmers University of Technology) – with Maria Johansson & Ksenia Onufrey (LiU), and Sarah Broberg Viklund (RISE)

#### **THE ROLES OF INTERMEDIARIES IN THE TRANSITION TO A SUSTAINABLE ENERGY SYSTEM (2015-2018)**

Funder: Swedish Energy Agency

Budget: 7.0 MSEK

Role: Main applicant (Linköping University / Chalmers University of Technology) – with Ingrid Mignon & Johanna Nählinder (LiU)

#### **RENEWABLE ENERGY AS TRANSITION STRATEGY (2012-2014)**

Funder: Norwegian Research Council

Budget: unknown

Role: Co-applicant (University of Oslo) – with Olav Wicken, Sjur Kasa, Keith Smith et al. (UiO)

#### **NEW INVESTORS IN RENEWABLE ELECTRICITY PRODUCTION: MOTIVES, INVESTMENT CRITERIA AND POLICY IMPLICATIONS (2010-2014)**

Funder: Swedish Energy Agency  
Budget: 6.4 MSEK  
Role: One of two main applicants (Linköping University) – with Gunnel Sundberg (other main applicant) & Mats Söderberg (LiU)

**KNOWLEDGE INTEGRATION AND INNOVATION IN AN INTERNATIONALIZING ECONOMY (2007-2014)**

Funder: Riksbankens Jubileumsfond  
Budget: 28.9 MSEK  
Role: Co-applicant (one of two main authors of the application) (Linköping University) – with Christian Berggren, Lars Lindkvist, Fredrik Tell, Jonas Söderlund, Hans Andersson, Nicolette Lakemond & Thomas Magnusson (LiU), and Lars Bengtsson (Gävle University College).

**SECTORAL MODES OF OPEN INNOVATION AND POLICY IMPLICATIONS (2007-2008)**

Funder: VISION Era-Net/Vinnova  
Budget: ca 0.4 MSEK (Linköping University share)  
Role: Co-applicant (Linköping University) – with Koen Dittich (RSM Erasmus University), Christopher Palmberg (Etlatiety Oy), Tuomo Pentikäinen (Advansis Oy), Aldis Kaludis (NIFU STEP), and Fredrik Tell (LiU)

**A CRITICAL SCRUTINY OF ‘GREEN CERTIFICATES’ AS A MEANS TO SUPPORT THE DIFFUSION OF RENEWABLE ENERGY TECHNOLOGY (2007)**

Funder: Swedish Ministry of Finance’s Environmental Fund  
Budget: ca 0.3 MSEK  
Role: Co-applicant (Linköping University) – with Staffan Jacobsson (Chalmers University of Technology)

**INNOVATIONS AND TECHNOLOGY STRATEGIES IN BIG FIRMS – DO TECHNOLOGY STRATEGIES AND PROJECT-BASED ORGANIZATIONAL CAPABILITIES MATTER? (2006-2008)**

Funder: Sweden Scientific Council (Vetenskapsrådet)  
Budget: 2.2 MSEK  
Role: Co-applicant (Linköping University) – with Christian Berggren & Fredrik Tell (LiU)

**TECHNOLOGY STRATEGY, ORGANIZING AND INNOVATION IN LARGE COMPANIES (2005-2007)**

Funder: The Lars Erik Lundberg Foundation for Research and Education  
Budget: 1.0 MSEK  
Role: Co-applicant (Linköping University) – with Christian Berggren & Fredrik Tell (LiU)

**CHALLENGES AND OPTIONS FOR POLICY IN THE TRANSFORMATION OF THE (SWEDISH) ELECTRICITY AND TRANSPORT SYSTEMS (2004-2006)**

Funder: Swedish Energy Agency  
Budget: 2.2 MSEK  
Role: Co-applicant (Linköping University) – with Staffan Jacobsson & Björn Sandén (Chalmers University of Technology)

**EVALUATION OF THE ELECTRICITY CERTIFICATE SYSTEM'S INFLUENCE ON THE FUNCTIONALITY OF SWEDISH INNOVATION SYSTEMS FOR RENEWABLE ELECTRICITY TECHNOLOGIES (2004)**

Funder: Swedish Energy Agency

Budget: 17 tSEK

Role: Main applicant (Linköping University)

**SHAPING AND EXPLOITING TECHNOLOGICAL OPPORTUNITIES – THE CASE OF THE SWEDISH CAPITAL GOODS INDUSTRY'S VENTURE INTO RENEWABLE ENERGY TECHNOLOGY (1999-2002)**

Funder: Swedish Energy Agency

Budget: not available

Role: Co-applicant (Chalmers University of Technology) – with Staffan Jacobsson & Lennart Bångens (Chalmers)

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**PROJECT  
MANAGEMENT  
EXPERIENCES**

**ELECTRICITY RETAILERS AND SOLAR POWER DIFFUSION: STRATEGIES AND CRITICAL TRADE-OFFS (2019-2021)**

Role: Original idea & project design; project management & administration  
Team: 1 PhD candidate, 1 Post Doc (not funded by the project) and 2 master students (not funded by the project)

**POLICYMAKERS' CAPACITY TO DEVELOP A SUSTAINABLE BIOECONOMY (2018-2020)**

Role: Co-development of original idea & project design; project management & administration  
Team: 1 Post Doc, 1 senior researcher and 1 project assistant

**THE ROLES OF INTERMEDIARIES IN THE TRANSITION TO A SUSTAINABLE ENERGY SYSTEM (2015-2018)**

Role: Co-development of original idea & project design; project management & administration  
Team: 1 senior researcher, 1 PhD candidate/Post Doc, 1 PhD candidate

**NEW INVESTORS IN RENEWABLE ELECTRICITY PRODUCTION: MOTIVES, INVESTMENT CRITERIA AND POLICY IMPLICATIONS (2010-2014)**

Role: Co-development of original idea; project design; project management & administration (2013-2014)  
Team (in 2013-2014): 1 PhD candidate, 2 senior researchers

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**PHD SUPERVISION**

**ONGOING**

Examiner and main supervisor of **Maria Blarr**, Department of Technology Management and Economics, Chalmers University of Technology (2019 – present)

Examiner and secondary supervisor of **Valentina Nakic**, Department of Technology Management and Economics, Chalmers University of Technology (2019 – present)

Examiner and main supervisor of **Carolina Resende Haddad**, Department of Technology Management and Economics, Chalmers University of technology (2018 – present)

Examiner of **Niklas Fernqvist**, Department of Technology Management and Economics, Chalmers University of Technology (2017 – present)

#### COMPLETED

Secondary supervisor of **Tuukka Mäkitie**, University of Oslo (2017-2019).  
*PhD thesis: "Sustainability transitions in oil economies: Resource redeployment from an established industry to a clean technology industry" (2019).*

Main supervisor and examiner of **Joakim Aspeteg**, Department of Energy and Environment/Department of Technology Management and Economics, Chalmers University of Technology (2016-2019).

*Licentiate thesis: "The raison d'être of diffusion intermediaries in solar and wind power in Sweden" (2019).*

Co-supervisor of **Yuliya Blondiau** (formerly Karneyeva), University of St Gallen (2016-2018).

*PhD thesis: "Investments in Renewable Energy under Uncertainty: The Role of Energy Policy, Project Economics and Investor Categories" (2018).*

Main supervisor and examiner of **Ksenia Onufrey**, Linköping University (2011-2017).

*Licentiate thesis: "Technology Dynamics in Multi-Technology Industries: Selection and Variety Creation through the Lens of Path Dependency and Path Generation" (2014).*

*PhD thesis: "Enabled by the past: understanding endogenous innovation in mature industries" (2017).*

Main supervisor and examiner of **Ingrid Johansson Mignon** (2011-2016), Linköping University.

*Licentiate thesis: "Entering renewable electricity production: An actor perspective" (2014).*

*PhD thesis: "Inducing large-scale diffusion of innovation: An integrated actor- and system-level approach" (2016).*

Secondary supervisor of **Charlotte Norrman**, Linköping University (2004-2008).

*Licentiate Thesis: "Publicly Funded Support of Technology-Based Ventures" (2005).*

*PhD Thesis: "Entrepreneurship Policy. Public Support for Technology-Based Ventures" (2008).*

Secondary supervisor of Petter Jönsson, Linköping University (2004-2005).

*Licentiate Thesis: "Modular Innovation in Mature Structures: A study of barriers and drivers between young and established organizations" (2005).*

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#### PARTICIPATION IN PHD DEFENCES

#### CHAIR AT PUBLIC DEFENCE

Chair at the dissertation defence of **Maria Massaro**, Department of Technology Management and Economics, Chalmers University of Technology (Dec 2019).

#### CHAIR/MEMBER OF GRADING COMMITTEE

Chair of the grading committee at the dissertation defence of **Maria Landqvist**, Department of Technology Management and Economics, Chalmers (Apr 2020).

*PhD thesis: "Patterns of resource interaction in resource constellations: The case of start-ups approaching the Swedish energy system".*

Member of the grading committee (as co-supervisor) at the dissertation defence of **Yuliya Blondiau**, Institute for Economy and the Environment, University of St Gallen (Jan 2018). *PhD thesis: "Investments in Renewable Energy under Uncertainty: The Role of Energy Policy, Project Economics and Investor Categories"*.

Chair of the grading committee at the dissertation defence of **Hanna Martin**, CIRCLE, Lund University (Nov 2016). *PhD Thesis: "Innovation for tackling grand challenges: Cleantech industry dynamics and regional context"*.

Member of the grading committee at the dissertation defence of **Jonatan Freilich**, Department of Industrial Economics and Management, KTH (Nov 2015). *PhD Thesis: "When innovation is not enough: managerial challenges of technology change in pharmaceutical R&D"*.

Chair of the grading committee at the dissertation defence of **Hans Hellsmark**, Chalmers (Jan 2011). *PhD Thesis: "Unfolding the formative phase of gasified biomass in the European Union"*.

Chair of the grading committee at the dissertation defence of **Karl Hillman**, Chalmers (Nov 2008). *PhD Thesis: "Environmental assessment and strategic technology choice: the case of renewable transport fuels"*.

Member of the grading committee at the dissertation defence of **Kristina Ek**, Luleå University of Technology (Nov 2005). *PhD Thesis: "The economics of renewable energy support"*.

#### **OPPONENT/DISCUSSANT AT PHD OR LICENTIATE DEFENCE**

Second opponent and member of grading committee at the dissertation defence of **Hilde Nykamp**, TIK Centre, University of Oslo (May 2018). *PhD thesis: "Green innovation in the Norwegian construction sector: policies, projects and industrial dynamics"*.

Opponent at the dissertation defence of **Fredric Bauer**, Department of Chemical Engineering, Lund University (May 2018). *PhD thesis: "Innovation for biorefineries: Networks, narratives, and new institutions for the transition to a bioeconomy"*.

Opponent at the licentiate thesis defence of **Martin Albrecht**, Department of Sustainable development, environmental science and engineering, KTH (Jun 2017). *Licentiate thesis: "Enabling socio-technical transitions – electric vehicles and high voltage electricity grids as focal points of low emission futures"*.

Opponent at the dissertation defence of Emrah Karakaya, Department of Industrial Economics and Management, KTH (Dec 2015). *PhD thesis: "Diffusion of dynamic innovations: A case study of residential solar PV systems"*.

Discussant (opponent) at the licentiate thesis defence of **Eugenia Perez-Vico**, Chalmers (Oct 2010). *Licentiate thesis: "Capturing and explaining the effects of academic R&D – The case of nanotechnology"*.

#### **DISCUSSANT AT FINAL SEMINAR OR SIMILAR**

Discussant at "final seminar" (slutseminarium) for **Anna Darmani**, Department of Industrial Economics and Management, KTH (Apr 2015). *Thesis draft: "Who is in the driver seat? Evolution of actors in the renewable electricity industry"*.



Discussant at “pre-final seminar” (förslutseminarium) for **Daniel Nordigården**, Department of Management and Economics, Linköping University (Sep 2006). *Thesis draft: “Outsourcing of raw material based components – a customer and supplier perspective”.*

Discussant at “50% seminar” for **Stian Nygaard**, Department of Innovation, Lund University (May 2006).

Discussant at “final seminar” (approx. 80%) for **David Bauner**, Department of Industrial Economics and Management, KTH (Nov 2005). *Thesis draft: “The global introduction of the automotive three-way catalytic converter: Innovation under environmental, economic and structural constraints”*

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ACADEMIC  
COMMISSIONS OF  
TRUST

**MEMBER OF THE INTERNATIONAL ADVISORY BOARD OF CIRCLE (LUND UNIVERSITY).**

2019 – present

**RECEIVING EDITOR OF RESARCH POLICY**

2020 – present

**ASSOCIATE EDITOR OF RESARCH POLICY**

2014-2019

**REVIEWER FOR SCIENTIFIC JOURNALS**

2003 – present

Frequent reviewer for *Research Policy*, *Environmental Innovation and Societal Transitions*, *Energy Policy*, and *Technological Forecasting and Social Change* (1-2 articles per year for each on average).

**MEMBER OF THE BOARD OF THE SWEDISH WIND POWER TECHNOLOGY CENTRE, CHALMERS UNIVERSITY OF TECHNOLOGY**

2016-2018

**MEMBER OF THE BOARD OF PROCESS INDUSTRIAL CENTRE LINKÖPING (PIC-LI)**

2010-2014

**MEMBER OF THE BOARD OF MANAGEMENT OF THE INTERNATIONAL JOSEPH A. SCHUMPETER SOCIETY**

2010-2014

**EQUAL OPPORTUNITIES REPRESENTATIVE, SCHOOL OF MANAGEMENT OF TECHNOLOGY, CHALMERS**

2000-2001

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## PEDAGOGICAL QUALIFICATIONS

**PEDAGOGICAL PROFILE** I have been active as a teacher in higher education for over 20 years, at undergraduate, graduate and doctoral level and in the areas of entrepreneurship and business planning, innovation management and product development, stakeholder management, and innovation and transitions studies. I have participated in the development of new and existing courses, planned courses, carried out various types of teaching (e.g. lectures, seminars, workshops and tutoring), conducted various types of examination (e.g. exams, projects, case assignments, essays, reflection documents, master theses) and done follow-ups of courses through different kinds of course evaluations. I have also experience of pedagogical leadership and development at the program and faculty level and have participated in education assessments in Sweden and abroad.

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**MOST RECENT PEDAGOGICAL ACTIVITIES**

**GRADUATE LEVEL (AVANCERAD NIVÅ)**

Course leader, main lecturer and seminar leader in master-level course *Innovation systems and sociotechnical transitions* (7.5 ECTS credits, 20 students), Chalmers University of Technology (2020).

Course leader and main lecturer in master-level course *Managing stakeholders for sustainable development* (7.5 ECTS credits, 50-70 students), Chalmers University of Technology (2017-2019).

Course leader and one of three main lecturers in master-level course *Innovation management* (6 ECTS credits, 60-70 students), Linköping University (2013-2016).

**DOCTORAL LEVEL**

Seminar leader, reading course *Transformative Innovation Policy*, Chalmers University of Technology (2019).

Lecture on technological innovation systems in national PhD course *Perspectives on Energy Systems*, Gothenburg University (2019).

Lecture on technological innovation systems in PhD course *Roots and branches*, Chalmers University of Technology (2019).

Lectures on innovation system perspectives and transformative innovation policy in NORSI PhD course *Innovation research – from origin to current frontier*, BI Norwegian Business School, Oslo (2018).

Lecture on technological innovation systems in the NORSI PhD course *Innovation and sustainability transitions*, Tromsø (2018).

Seminar leader and joint course manager in PhD course *Innovation Management*, Linköping University & Chalmers University of Technology (2017).

Seminar leader on innovation system perspectives in PhD course *Classics in innovation and entrepreneurship*, Linköping University (2017-2018).

Lecturer and workshop leader, PhD course *Understanding technological and industrial transformation processes*, University of Oslo (2016).

Lecture on innovation in mature industry, PhD course *Knowledge dynamics, Industry evolution, economic development* (KID), Nice (2016).

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**COURSE  
DEVELOPMENT**

**UNDERGRADUATE LEVEL (GRUNDNIVÅ)**

Redesign of course *Entrepreneurship and New Business Development* (6 ECTS credits) for various engineering programmes at Linköping University (with two colleagues at LiU) (2008).

Development of new course *Basic Entrepreneurship and Idea Feasibility Analysis* (6 ECTS credits) for various engineering programmes at Linköping University (with two colleagues at LiU) (2008).

Development of new course *Tourism and entrepreneurship* for the BSc program in Tourism development, Linköping University (2007).

**GRADUATE LEVEL (AVANCERAD NIVÅ)**

Development of new course *Innovation systems and sociotechnical transitions* (7.5 ECTS credits) for the Management and economics of innovation (MEI) master's programme, Chalmers University of Technology (2020).

Redesign of course *Managing stakeholders for sustainable development* (7.5 ECTS credits) for the Industrial ecology master's programme, Chalmers University of Technology (2018 & 2019)

Development of new course *Innovation management* (6 ECTS credits) for the Design & product development, Energy, environment & management, and Industrial engineering & management engineering programmes, Linköping University (together with colleagues at LiU) (2013).

Development of new course *Innovative entrepreneurship* (6 ECTS credits) for the Design & product development, Energy, environment & management, and Industrial engineering & management engineering programmes, Linköping University (together with a colleague at LiU) (2008).

Development of new course *Product development and innovation management* (12 ECTS credits) for the Innovation and product development master's programme, Linköping University (together with colleagues at LiU) (2007).

**DOCTORAL LEVEL (FORSKARNIVÅ)**

Reading course *Transformative Innovation Policy*, Chalmers (with a colleague at Chalmers) (2019).

PhD course *Innovation Management*, Linköping University & Chalmers (with a former colleague at Linköping University) (2017).

PhD course *Writing a cover paper for a licentiate (or doctoral) thesis*, Linköping University (with colleagues at Linköping University) (2014).

PhD course *Classics in innovation and entrepreneurship*, Linköping University (with colleagues at Linköping University) (2013).

PEDAGOGICAL  
LEADERSHIP

**MEMBER OF BSC/MSC PROGRAMME ASSESSMENT PANEL CLUSTER INNOVATION SCIENCES,  
THE NETHERLANDS (VRIJE UNIVERSITY AMSTERDAM, UTRECHT UNIVERSITY AND  
EINDHOVEN UNIVERSITY OF TECHNOLOGY)**

2017

**ASSOCIATE AND VICE DEAN, FACULTY OF SCIENCE AND ENGINEERING, LINKÖPING  
UNIVERSITY**

2012-2016

**VICE CHAIR OF THE BOARD OF DIDACTICUM (LINKÖPING UNIVERSITY'S CENTRE FOR  
PEDAGOGY EDUCATION)**

2014-2016

**MEMBER OF LINKÖPING UNIVERSITY'S EDUCATION QUALITY COMMITTEE (REPRESENTING  
THE FACULTY OF SCIENCE AND ENGINEERING)**

2012-2016

**MEMBER OF THE STEERING COMMITTEE OF THE LISAM PROJECT (DEVELOPMENT OF A  
NEW LEARNING PLATFORM FOR LINKÖPING UNIVERSITY)**

2012-2013

**MEMBER OF THE PROGRAM BOARD FOR INDUSTRIAL ENGINEERING & MANAGEMENT  
AND LOGISTICS, FACULTY OF SCIENCE AND ENGINEERING, LINKÖPING UNIVERSITY**

2007-2009

**PH.D. STUDENT REPRESENTATIVE IN THE PH.D. EDUCATION COMMITTEE, CHALMERS**

1997/98

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COLLABORATION &  
UTILIZATION  
PROFILE

My research is mainly relevant for policy makers and civil servants at government agencies, for example innovation agencies, energy agencies and regional development agencies, and I have devoted quite some time to developing analytical frameworks, manuals and education for such actors. Throughout my career, I have maintained an especially close relationship with the Swedish innovation agency Vinnova and the Swedish Energy Agency, as evidenced by several commissioned and collaborative projects and a number of societal commissions of trust. I have also had some collaboration with industry, mainly in the form of executive education and some minor assignments as a consultant.

COMMISSIONED &  
COLLABORATIVE  
PROJECTS**STATENS ROLL I OMSTÄLLNINGEN TILL EN KLIMATNEUTRAL PROCESSINDUSTRI (2017-2019)**

Research project commissioned by the Swedish Energy Agency (led by RISE) including theory development, historical case studies and empirical analysis of four process industries in Sweden.

Project team: Kersti Karltorp (project manager), Jesse Fahnestock & Johanna Ulmanen (RISE), and Anna Bergek & Hans Hellsmark (Chalmers University of Technology).

Report: Karltorp et al. (2019): *Statens roll för klimatomställning i processindustrin: Utmaningar och möjligheter för socioteknisk omställning i svensk industri för framställning av järn- och stål, cement, raffinaderiprodukter och kemikalier*. RISE Report 2019:15.

**ANALYS INOM TEKNOLOGISKA INNOVATIONSSYSTEM (TIS) (2013-2014)**

Research project commissioned by the Swedish Energy Agency including the development of guidelines for technological innovation system analysis (led by SP Sveriges Tekniska Forskningsinstitut AB).

Project team: Hans Hellsmark, Johanna Mossberg & Johanna Ulmanen (SP), Staffan Jacobsson, Björn Sandén, Eugenia Perez Vico, Anneli Kamb, Duncan Kushnir & John Andersson (Chalmers University of Technology), Anna Bergek, Thomas Magnusson & Christian Berggren (Linköping University), Tomas Hellström (Lund University), Ulf Malmquist, Andreas Gustafsson, Linus Hammar, Magnus Henke, Anders Holmgren, Susanne Karlsson, Jonas Lindmark & Fredrik Walla (Swedish Energy Agency), and Fredrik Dolff (Västra Götaland Region).

Report: Hellsmark et al. (2014): *Teknologiska innovationssystem inom energiområdet: En praktisk vägledning till identifiering av systemsvagheter som motiverar särskilda politiska åtaganden*. ER 2014:23, Swedish Energy Agency, Eskilstuna.

**ASSESSMENT OF THE ELECTRICITY CERTIFICATE SYSTEM'S INFLUENCE ON THE FUNCTIONALITY OF THE SWEDISH INNOVATION SYSTEMS FOR RENEWABLE ENERGY TECHNOLOGY (2004)**

Research project commissioned by the Swedish Energy Agency.

Report: Bergek (2004): *Elcertifikatsystemet och innovationssystemen inom förnybar energiteknik*. Mimeo, Department of Management and Economics, Linköping University, Linköping.

**EXPERIMENTAL APPLICATION OF ‘FUNCTIONAL ANALYSIS’ AS A TOOL TO IDENTIFY POLICY PROBLEMS AND TO EVALUATE DIFFERENT POLICY MEASURES (2004-2005)**

Research project commissioned by Vinnova including the development of a manual for functional innovation system analysis and an analysis of the Swedish innovation system for bio-composites.

Project team: Staffan Jacobsson & Sven Lindmark (Chalmers University of Technology), Anna Bergek (Linköping University), Bo Carlsson (Case Western Reserve University), and Annika Rickne (Lund University).

Report: Bergek et al. (2005): *Analysing the dynamics and functionality of sectoral innovation systems*, report to Vinnova, Mimeo, Chalmers University of Technology, Gothenburg.

**CONSULTANT FOR THE SWEDISH ENERGY AGENCY (2001)**

Commissioned advice on to the promotion of alternative vehicle fuels.

**CONSULTANT FOR INDUSTRY (1999)**

Strategy development for firms and industry organisations in the renewable energy area.

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SOCIETAL  
COMMISSIONS OF  
TRUST

**MEMBER OF THE ACADEMIC REFERENCE GROUP FOR THE EVALUATION OF THE SWEDISH STRATEGIC INNOVATION PROGRAMS (SIPS)**

2019 – present

**MEMBER OF THE SWEDISH ENERGY AGENCY’S ENERGY RESEARCH AND DEVELOPMENT BOARD (ENERGIUTVECKLINGSNÄMNDEN) (BY APPOINTMENT FROM THE SWEDISH GOVERNMENT)**

2018 – present

**MEMBER OF THE SWEDISH ENERGY AGENCY’S DEVELOPMENT PLATFORM “SYSTEM” (UP SYSTEM)**

2014-2016

**MEMBER OF THE SWEDISH ENERGY AGENCY’S REFERENCE GROUP FOR HORIZON 2020**

2014-2016

**MEMBER OF THE BOARD OF THE SWEDISH WIND ENERGY RESEARCH PROGRAMME (VINDFORSK)**

2006-2008

**MEMBER OF THE REFERENCE GROUP OF AN EVALUATION OF THE SWEDISH WIND POWER SUPPORT, THE EXPERT GROUP OF ENVIRONMENTAL STUDIES, MINISTRY OF FINANCE**

2005-2006

**MEMBER OF REFERENCE GROUP FOR AN EVALUATION OF THE SWEDISH LOCAL INVESTMENT PROGRAMME (LIP)**

2004

## MEMBER OF THE LONGTERM PANEL IN IVA'S ENERGY FORESIGHT PROJECT

2001-2003

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### EXECUTIVE EDUCATION

#### **ENTREPRENEURSHIP PROGRAM (ENP) (2009-2012)**

Workshops on idea feasibility analysis in various versions of the program, which was provided by the Centre for Innovation and Entrepreneurship (CIE) at Linköping University (e.g. ENP Gröna Näringar and a competence development program for Saab Trollhättan).

*My role: Development of a workshop concept, workshop material development, workshop leadership and evaluation (all together with a colleague).*

#### **PROJECT MANAGEMENT EXECUTIVE (PMEX) PROGRAM (2007 & 2008)**

Seminars on R&D collaboration/open innovation.

*My role: Development of a seminar outline (together with a colleague); design of teaching and learning activities for my sub-topics, seminar leader.*

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### CONFERENCES, SEMINARS AND WORKSHOPS WITH NON-ACADEMIC STAKEHOLDERS (SELECTION)

#### **PRESENTATIONS AT CONFERENCES AND SEMINARS**

Chalmers Energy Industry Day, Gothenburg, June 2018: Introduction to the theme "How fast can transitions be?"

Swedish Hydro Power Association (SVAF), Linköping, April 2015: Presentation of study of non-traditional investors in renewable electricity production.

Tillväxtanalys/Vinnova, Stockholm, March 2012: Presentation of the technological innovation systems perspective on policy,

Swedish Energy Agency, Eskilstuna, August 2005: Presentation of work on functional analysis of innovation systems.

SVEBIO (the Swedish Bioenergy Association), Skokloster, September 2003: Presentation of the results of the Commission on Long-term Energy Research.

Göteborgs Energi's "Sommardagar", Gothenburg, August 2001: Presentation of research project.

EnergiRådgivarnas TeknikDagar, Karlstad, November 2000: Research presentation and debate participation.

#### **WORKSHOPS**

Workshop on transformative innovation policy, Vinnova, Stockholm, May 2019: Presentation about the role of intermediaries in transformative change.

Workshop on functional analysis of sectoral innovation systems, Vinnova, Stockholm, September 2009: workshop leader.

Workshop on new investors in renewable electricity production, Swedish Energy Agency, Eskilstuna, February 2013: workshop leader.

Expert workshop on renewable energy as future growth industry by consultant firm Grufman Reje, Augusti 2002: workshop participant.

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## JOURNAL ARTICLES

- Kivimaa, P., **Bergek, A.**, Matschoss, K. & van Lente, H. (2020, available online): Intermediaries in accelerating transitions: Introduction to the special issue, *Environmental Innovation and Societal Transitions* (introduction to special issue). <https://doi.org/10.1016/j.eist.2020.03.004>
- Bergek, A.** (2020, available online): Diffusion intermediaries: a taxonomy based on renewable electricity technology in Sweden, *Environmental Innovation and Societal Transitions*. <https://doi.org/10.1016/j.eist.2019.11.004>
- Aspeteg, J. & **Bergek, A.** (2020): The value creation of diffusion intermediaries: brokering mechanisms and trade-offs in solar and wind power in Sweden, *Journal of Cleaner Production*, 251, 119640. <https://doi.org/10.1016/j.jclepro.2019.119640>
- Onufrey, K. & **Bergek, A.** (2020): Second wind for exploitation: pursuing high degrees of product and process innovativeness in mature industries, *Technovation* 89, 102068. <https://doi.org/10.1016/j.technovation.2019.02.004>
- Köhler, J., Geels, F. W., Kern, F., Markard, J., Wieczorek, A. J., Alkemade, F., Avelino, F., **Bergek, A.**, Boons, F., Fünfschilling, L., Hess, D., Holtz, G., Hyysalo, S., Jenkins, K., Kivimaa, P., Martiskainen, M., McMeekin, A., Muehlmeier, S., Nykvist, B., Onsongo, E., Pel, B., Raven, R., Rohracher, H., Sandén, B., Schot, J., Sovacool, B., Turnheim, B., Welch, D. & Wells, P. (2019): An agenda for sustainability transitions research: State of the art and future directions (“viewpoint”), *Environmental Innovation and Societal Transitions* 31: 1-32. <https://doi.org/10.1016/j.eist.2019.01.004>
- Jacobsson, S., **Bergek, A.** & Sandén, B. (2017): Improving the European Commission’s analytical base for designing instrument mixes in the energy sector: Market failures versus system weaknesses, *Energy Research and Social Science* 33: 11-20. <https://doi.org/10.1016/j.erss.2017.09.009>
- Bergek, A.** & Mignon, I. (2017): Motives to adopt renewable electricity technologies: Evidence from Sweden, *Energy Policy* 106: 547-559. <https://doi.org/10.1016/j.enpol.2017.04.016>
- Mignon, I. & **Bergek, A.** (2016): System- and actor-level challenges for diffusion of renewable electricity technologies: an international comparison, *Journal of Cleaner Production* 128: 105-115. <https://doi.org/10.1016/j.jclepro.2015.09.048>
- Mignon, I. & **Bergek, A.** (2016): Investments in renewable electricity production: the importance of policy revisited, *Renewable Energy* 88: 307-316. <https://doi.org/10.1016/j.renene.2015.11.045>
- Onufrey, K. & **Bergek, A.** (2015): Self-reinforcing mechanisms in a multi-technology industry: understanding sustained technological variety in a context of path dependency, *Industry & Innovation* 22 (6): 523-551. <https://doi.org/10.1080/13662716.2015.1100532>



- Bergek, A.**, Hekkert, M.P., Jacobsson, S., Markard, J., Sandén, B. & Truffer, B. (2015): Technological innovation systems in contexts: conceptualizing contextual structures and interaction dynamics, *Environmental Innovation and Societal Transitions* 16:51-64. <https://doi.org/10.1016/j.eist.2015.07.003>
- Bergek, A.** & Norrman, C. (2015): Integrating the supply and demand sides of public support to new technology-based firms, *Science and Public Policy* 42 (4): 514-529. <https://doi.org/10.1093/scipol/scu072>
- Bergek, A.** & Berggren, C. (2014): The impact of environmental policy instruments on innovation: a review of energy and automotive industry studies, *Ecological Economics* 106: 112-123. <https://doi.org/10.1016/j.ecolecon.2014.07.016>
- Bergek, A.** & Onufrey, K. (2014): Is one path enough? Multiple paths and path interaction as an extension of path dependency theory, *Industrial and Corporate Change* 23 (5): 1261-1297. <https://doi.org/10.1093/icc/dtt040>
- Bergek, A.**, Berggren, C., Magnusson, T. & Hobday, M. (2013): Technological discontinuities and the challenge for incumbent firms: destruction, disruption or creative accumulation? *Research Policy* 42 (6-7): 1210-1224. <https://doi.org/10.1016/j.respol.2013.02.009>
- Bergek, A.**, Mignon, I. & Sundberg, G. (2013): Who invests in renewable electricity production? Empirical evidence and suggestions for further research, *Energy Policy* 56: 568-581. <https://doi.org/10.1016/j.enpol.2013.01.038>
- Jacobsson, S. & **Bergek, A.** (2011): Innovation system analyses and sustainability transitions: contributions and suggestions for research, *Environmental Innovation and Societal Transitions* 1 (1): 41-57. <https://doi.org/10.1016/j.eist.2011.04.006>
- Bergek, A.** (2010): Levelling the playing field? The influence of national wind power planning instruments on conflicts of interest in a Swedish county, *Energy Policy* 38 (5): 2357-2369. <https://doi.org/10.1016/j.enpol.2009.12.023>
- Bergek, A.** & Bruzelius, M. (2010): Are patents with multiple inventors from different countries a good indicator of international R&D collaboration? The case of ABB. *Research Policy* 39: 1321-1334. <https://doi.org/10.1016/j.respol.2010.08.002>
- Bergek, A.** & Jacobsson, S. (2010): Are Tradable Green Certificates a cost-efficient policy driving technical change or a rent-generating machine? Lessons from Sweden 2003-2008, *Energy Policy* 38 (3): 1255-1271. <https://doi.org/10.1016/j.enpol.2009.11.001>
- Bergek, A.**, Berggren, C. & Tell, F. (2009): Do technology strategies matter? A comparison of two electrical engineering corporations, 1988-1998, *Technology Analysis & Strategic Management*, 21 (4): 445-470. <https://doi.org/10.1080/09537320902818744>
- Jacobsson, S., **Bergek, A.**, Finon, D., Lauber, V., Mitchell, C., Toke, D. & Verbruggen, A. (2009): EU renewable energy support policy: Faith or facts?, *Energy Policy* 37 (6): 2143-2146. <https://doi.org/10.1016/j.enpol.2009.02.043>
- Bergek, A.**, Berggren, C., Tell, F. & Watson, J. (2008): Technological capabilities and late shakeouts: Industrial dynamics in the advanced gas turbine industry, 1986-2002, *Industrial and Corporate Change*, 17 (2): 335-392. <https://doi.org/10.1093/icc/dtn005>

**Bergek, A.**, Jacobsson, S., Carlsson, B., Lindmark, S. & Rickne, A. (2008): Analyzing the functional dynamics of technological innovation systems: a scheme of analysis. *Research Policy*, 37 (3): 407-429. <https://doi.org/10.1016/j.respol.2007.12.003>

**Bergek, A.**, Jacobsson, S. & Sandén, B. (2008): 'Legitimation' and 'Development of positive externalities': Two key processes in the formation phase of technological innovation systems, *Technology Analysis & Strategic Management*, 20 (5): 575-592.

**Bergek, A.** & Norrman, C. (2008): Incubator best practise: A model. *Technovation*, 28 (1/2): 20-28.

Jacobsson, S. & **Bergek, A.** (2006): A framework for guiding policy makers intervening in emerging innovation systems in 'catching up' countries. *European Journal of Development Research*, 18 (4): 687-707.

**Bergek, A.** & Berggren, C. (2004): Technological Internationalisation in the Electro-Technical Industry: A Cross-Company Comparison of Patenting Patterns 1986-2000. *Research Policy*, 33 (9): 1285-1306.

Jacobsson, S. & **Bergek, A.** (2004): Transforming the Energy Sector: The Evolution of Technological Systems in Renewable Energy Technology. *Industrial and Corporate Change*, 13 (5): 815-849. <https://doi.org/10.1093/icc/dth032>

Jacobsson, S. & **Johnson, A.** (2000): The Diffusion of Renewable Energy Technology: An Analytical Framework and Key Issues for Research. *Energy Policy*, 28 (9): 625-640. [https://doi.org/10.1016/S0301-4215\(00\)00041-0](https://doi.org/10.1016/S0301-4215(00)00041-0)

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#### BOOKS

Berggren, C., **Bergek, A.**, Bengtsson, L., Hobday, M. & Söderlund, J. (Eds) (2011): *Knowledge Integration and Innovation. Critical challenges facing international technology-based firms*. Oxford University Press, Oxford. ISBN: 978-0-19-969392-4.

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#### BOOK CHAPTERS

**Bergek, A.** (2019): Technological innovation systems: a review of recent findings and suggestions for further research. In: Boons, F. and McMeekin, A. (Eds): *Handbook of Sustainable Innovation*. Edward Elgar Publishing, Cheltenham, pp. 200-218.

**Bergek, A.** (2015): Att bryta ny väg genom att fortsätta i gamla hjulspår. In: Andersson, H. & Berggren, C. (Eds): *Kunskapsintegration och innovation i en internationaliserande ekonomi. Slutrapport från ett forskningsprogram.*, Riksbankens Jubileumsfond/Makadams förlag, Stockholm.

**Bergek, A.**, Jacobsson, S., Carlsson, B., Lindmark, S. & Rickne, A. (2015): Analyzing the Functional Dynamics of Technological Innovation Systems: A Scheme of Analysis, in: Fagerberg, J. & Mowery D. C. (Eds): *Innovation, Technology and Economic Change*. Edward Elgar, Northampton. (Reprint of Research Policy article from 2008.)

**Bergek, A.** (2013): Entreprenörer och entreprenörskap på det turistiska fältet. In: Sysner, J. & Kvarnström, L. (Eds): *Det turistiska fältet och dess aktörer*: Studentlitteratur, Lund, pp. 127-152.

**Bergek, A.** (2012): The Role of Entrepreneurship and Markets for Sustainable Innovation, in: Marletto, G. (Ed.): *Creating a Sustainable Economy. An Institutional and Evolutionary Approach to Environmental Policy*, Routledge, Abingdon.

**Bergek, A.** & Jacobsson, S. (2011): Fremmer grønne sertifikater ny teknologi?, in: Hanson, J., Kasa, S. & Wicken, O. (Eds): *Energirikdommens paradokser. Innovasjon som klimapolitikk og næringsutvikling*. Universitetsforlaget, Oslo.

Bengtsson, L., **Bergek, A.**, Berggren, C. & Söderlund, J. (2011): Exploring Knowledge Integration and Innovation, in: Berggren et al. (Eds): *Knowledge Integration and Innovation. Critical challenges facing international technology-based firms*. Oxford University Press, Oxford.

**Bergek, A.**, Berggren, C. & Magnusson, T. (2011): Creative Accumulation: Integrating New and Established Technologies in Periods of Discontinuous Change, in: Berggren et al. (Eds): *Knowledge Integration and Innovation. Critical challenges facing international technology-based firms*. Oxford University Press, Oxford.

Hobday, M. & **Bergek, A.** (2011): Lessons and Insights for Managers, in: Berggren et al. (Eds): *Knowledge Integration and Innovation. Critical challenges facing international technology-based firms*. Oxford University Press, Oxford.

**Bergek, A.**, Jacobsson, S. & Sandén, B. (2011): 'Legitimation' and 'Development of positive externalities': Two key processes in the formation phase of technological innovation systems, in: Geels, F.W., Hekkert, M.P. and Jacobsson, S. (Eds): *The Dynamics of Sustainable Innovation Journeys*. Routledge, Abingdon, pp. 55-72. *Previously published in Technology Analysis & Strategic Management; the anthology was based on a journal special issue.*

**Bergek, A.**, Jacobsson, S., Hekkert, M. & Smith, K. (2010): Functionality of innovation systems as a rationale and guide in innovation policy, in: Smits, R., Kuhlmann, S. & Shapira, P. (Eds): *The Theory and Practice of Innovation Policy. An International Research Handbook*. Edward Elgar, Cheltenham.

Hoefnagels, R., **Bergek, A.** & Lako, P. (2010): Combined Cycle Gas Turbine (CCGT) plants. In: Junginger, M., van Sark, W. and Faaij, A. (Eds): *Technological Learning in the Energy Sector. Lessons for Policy, Industry and Science*. Edward Elgar, Cheltenham, pp. 139-148.

**Bergek, A.**, Berggren, C., & Jacobsson, S. (2008): Håller Sverige på att missa klimatutmaningens innovationspotential? In: Öhrwall Rönnbäck, A. (Ed.): *Ur startblocken. Svensk innovationskraft II*, Forum för innovation Management, Stockholm, pp. 159-168 (in Swedish).

**Bergek, A.**, Hekkert, M. & Jacobsson, S. (2008): Functions in innovation systems: A framework for analysing energy system dynamics and identifying goals for system-building activities by entrepreneurs and policy makers. In: Foxon, T., Köhler, J. and Oughton, C. (eds): *Innovation for a Low Carbon Economy: Economic, Institutional and Management Approaches*, Edward Elgar, Cheltenham.

**Bergek, A.** & Jacobsson, S. (2003): The emergence of a growth industry: a comparative analysis of the German, Dutch and Swedish wind turbine industries. In: Metcalfe, S. & Cantner, U. (Eds): *Change, Transformation and Development*. Physica/Springer, Heidelberg, 2003, pp. 197-228.

**Johnson, A.** & Jacobsson, S. (2001): Inducement and Blocking Mechanisms in the Development of a New Industry: The Case of Renewable Energy Technology in Sweden. In: Coombs, R., Green, K., Walsh, V. & Richards, A. (Eds): *Technology and the Market:*

*Demand, Users and Innovation*". Edward Elgar. Cheltenham and Northampton, Massachusetts, 2001.

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- THESES**     **Bergek, A.** (2002): *Shaping and Exploiting Technological Opportunities: The Case of Renewable Energy Technology in Sweden*. Ph.D. Thesis, Department of Industrial Dynamics, Chalmers University of Technology, Göteborg, 2002.
- Johnson, A.** (1999): *Renewable Energy Technology: A New Swedish Growth Industry?* Thesis for the Degree of Licentiate of Engineering, Department of Industrial Dynamics, Chalmers University of Technology, Göteborg.
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- REPORTS**     **Bergek, A.** (2019): *Intermediärers roller vid omställningen till ett hållbart energisystem: Slutrapport*. Department of Technology Management and Economics, Chalmers University of Technology, Gothenburg (in Swedish).
- Karltorp, K., **Bergek, A.**, Fahnestock, J., Hellsmark, H. & Ulmanen, J. (2019): *Statens roll för klimatomställning i processindustrin. Utmaningar och möjligheter för socioteknisk omställning i svensk industri för framställning av järn- och stål, cement, raffinaderiprodukter och kemikalier*. RISE report 2019:15, RISE Research Institutes of Sweden, Gothenburg (in Swedish).
- Bergek, A.** (2014): Vägledning för analys av teknologiska innovationssystem ("Guidelines for analysis of technological innovation systems"), chapter in report: *Teknologiska innovationssystem inom energiområdet. En praktisk vägledning till identifiering av systemsvagheter som motiverar särskilda politiska åtaganden*. ER 2014:23, Swedish Energy Agency, Eskilstuna.
- Bergek, A.** & Mignon, I. (2014): *Nya investerare i förnybar elproduktion: motiv, investeringskriterier och policykonsekvenser (NyEl): Slutrapport*. Mimeo, Department of Management and Engineering, Linköping University, Linköping (in Swedish).
- Bergek, A.** (2004): *Elcertifikatsystemet och innovationssystemen inom förnybar energiteknik*. (The Electricity Certificate System and the Innovation Systems for Renewable Energy Technology), report to the Swedish National Energy Agency, Mimeo, Department of Management and Economics, Linköping University, Linköping.
- Bergek, A.**, Jacobsson, S., Carlsson, B., Lindmark, S. & Rickne, A. (2005): *Analysing the dynamics and functionality of sectoral innovation systems*, report to Vinnova, Mimeo, Chalmers University of Technology, Göteborg.
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- CONFERENCE ABSTRACTS & PAPERS**     Haddad, C. & **Bergek, A.** (2020): A functions approach for evaluating transformative innovation policy, full paper accepted for presentation at the IST 2020 conference, Vienna (online).
- Haddad, C., Nakić, V., **Bergek, A.** & Hellsmark, H. (2019): "A cyclic view of the transformative innovation policy literature: state of the arts and avenues for further research", full paper presented at *ICPP 2019*, Montreal 26-28 June 2019.
- Onufrey, K. & **Bergek, A.** (2019): "Driving a transition in a mature industry: the role of business and innovation strategies", paper presented at the *International Sustainability Transitions Conference (IST) 2019*, Ottawa 24-26 June 2019.

Onufrey, K. & **Bergek, A.** (2019): "Transformation in a mature industry: the role of business and innovation strategies", paper presented at *DRUID 2019*, Copenhagen 19-21 June 2019.

Aspeteg, J. & **Bergek, A.** (2019): "When is a diffusion intermediary an intermediary? The intermediation activities of solar and wind power project developers in Sweden." TRIPOD Intermediaries in transitions conference, Helsinki, April 2019.

**Bergek, A.**, Bjørgum, Ø, Hansen, T., Hanson, J. & Steen, M. (2018): Towards a sustainability transition in the maritime shipping sector: the role of market segment characteristics, paper presented at the *International Sustainability Transitions Conference (IST) 2018*, Manchester 12-14 June 2018.

Aspeteg, J. & **Bergek, A.** (2017): Exploiting opportunities in solar and wind power diffusion: the business models of private intermediaries, paper presented at the *International Sustainability Transitions Conference 2017*, Gothenburg, June 2017.

**Bergek, A.**, Mignon, I. & Nählinder, J. (2016): Mapping diffusion intermediaries: conceptualization and empirical application to the case of renewable energy technology in Sweden, paper presented at *Transforming innovation – SPRU 50th Anniversary Conference*, Brighton, 7-9 September 2016.

Onufrey, K. & **Bergek, A.** (2016): Second wind for innovation: strategies and intended innovation outcomes in a mature process industry, paper presented at *DRUID16 20th Anniversary Conference*, Copenhagen, 13-15 June, 2016.

**Bergek, A.** (2014): Two sides to the same story: pre-implementation concerns about the joint Swedish-Norwegian tradable green certificates system, abstract accepted after review by *Elsevier Energy Systems Conference*, London, 24-25 June 2014.

**Bergek, A.** (2014): Conceptualizing the dynamics of industry relatedness, paper presented at the *15th International Joseph A. Schumpeter Society Conference*, Jena, 27-30 July 2014.

**Bergek, A.**, Hekkert, M. P., Jacobsson, S., Markard, J. & Truffer, B. (2014): TIS dynamics in technological, sectoral, political and geographical context: lessons for analysts, paper presented at the *International Sustainability Transitions Conference 2014*, Utrecht, August 2014.

**Bergek, A.** (2014): Technological dynamics and policy: how to derive policy prescriptions, paper presented at the *Lundvall symposium on innovation policy*, Aalborg, March 2014 (invited paper).

Onufrey, K. & **Bergek, A.** (2013): Self-reinforcing mechanisms and multi-path dynamics: insights from applying the Technological Innovation Systems (TIS) perspective, *R&D Management Conference 2013*, Manchester, 26-28 June 2013.

**Bergek, A.** (2012): Ambiguities and challenges in the functions approach to TIS analysis: a critical literature review, paper presented at *IST 2012 - International Conference on Sustainability Transitions*, Copenhagen, 29-31 August 2012.

**Bergek, A.** & Berggren, C. (2012): Policy for environmental innovation: a comparative review of empirical evidence from two sectors, paper presented at *DRUID*, 20-22 June 2012 and at *IST 2012 - International Conference on Sustainability Transitions*, Copenhagen, 29-31 August 2012.

**Bergek, A.,** Berggren, C., Magnusson, T. & Hobday, M. (2012): Creative accumulation and disruptive innovation: contrasting cases of technology-induced industrial change, paper presented at *the Academy of Management Meeting*, Boston, 3-7 August 2012.

**Bergek, A. & Mignon, I.** (2012): Entrepreneurial investors in renewable electricity production: motives and investment processes, paper presented at *the 2012 International Schumpeter Society Conference*, Brisbane, 2-5 July 2012.

**Bergek, A. & Onufrey, K.** (2012): Path dependency in industries with multiple technological trajectories, paper presented at *the 2012 International Schumpeter Society Conference*, Brisbane, 2-5 July 2012.

Mignon, I. & **Bergek, A.** (2012): Investor motives vs. policies to promote investments in renewable electricity production: match or mismatch?, paper presented at *IST 2012 - International Conference on Sustainability Transitions*, Copenhagen, 29-31 August 2012.

**Bergek, A. & Berggren, C.** (2011): General versus Technology-Specific Policies for Sustainable Innovation: A Cross-Sector Analysis. Paper presented at *the R&D Management Conference*, Norrköping, 27-20 June 2011.

**Bergek, A.** (2010): The pitfalls of green innovation policy: the case of green certificates. Position paper presented at the *6CP workshop: Exploring the green innovation paradigm*, Utrecht, 15 November 2010.

**Bergek, A. & Norrman, C.** (2010): Integrating the supply and demand sides of public support to NTBFs: a typology with implications for policy makers. Paper presented at *Technical Change: History, Economics and policy: A Conference in Honour of Nick von Tunzelmann*, SPRU, Falmer, 29-30 March 2010.

Gunnarsson, S., Klofsten, M. & **Bergek, A.** (2010): Integrating Entrepreneurship in DBT Project Courses at Linköping University. Paper presented at *the 6th International CDIO Conference*, Montréal, 15-18 June 2010.

**Bergek, A. and Norrman, C.** (2009): Policy to Promote NTBFs: A Tentative Framework. Paper presented at the *High Technology Small Firms conference*, Manchester, 28-29 May 2009.

**Bergek, A. and Jacobsson, C.** (2009): Are Tradable Green Certificates a cost-efficient policy driving technical change or a rent-generating machine? Lessons from Sweden 2003-2008, Paper presented at the *DIME Workshop on Environmental Innovation, Industrial Dynamics and Entrepreneurship*, Utrecht, 10-12 May 2009.

**Bergek, A.,** Tell, F. and Palmberger, C. (2008): Product complexity and collaborative modes of knowledge sourcing: The case of combined-cycle gas turbines (CCGT). Paper presented at the *Vision ERA-Net conference on open innovation*, Stockholm, 16-17 April 2008 and the *KITE Advanced R&D Management workshop*, Linköping 15-16 September 2008.

**Bergek, A.,** Jacobsson, S. & Sandén, B. (2006): Which are the key processes and policy challenges in the formation and growth of a technology-specific innovation system? Paper presented at the workshop *Understanding processes in sustainable innovation journeys*, Utrecht, October 2-3 2006 (invited paper).

**Bergek, A.,** Hekkert, M. & Jacobsson, S. (2006): Functions in Innovation Systems: A Framework for Analysing Energy System Dynamics. Paper presented at the research

workshop on *Innovation in energy systems: Learning from economic, institutional and management approaches*, Oxford, March 22-24, 2006 (invited paper)

**Bergek, A.**, Berggren, C., Tell, F. & Watson, J. (2005): Emerging Technological Paths in a Mature Market: A Study of Patenting and Performance of Three Leading Firms in the Power Generation Equipment Industry, 1986-2002. Paper presented at the *EGOS* conference, Berlin, June 2005 (accepted after review of extended abstract).

Jacobsson, S., **Bergek, A.**, Carlsson, B., Lindmark, S. & Rickne, A. (2005): Analyzing the dynamics and functionality of technological innovation systems – a manual. Paper presented at the *DRUID Tenth Anniversary Summer Conference 2005*, Copenhagen, June 2005 (accepted after review).

**Bergek, A.** & Bruzelius, M. (2005): Patents with inventors from different countries: Exploring some methodological issues through a case study. Paper presented at the *DRUID Tenth Anniversary Summer Conference 2005*, Copenhagen, June 2005 (accepted after review).

**Bergek, A.** & Norrman, C. (2005): Sorting Out the Apples, Pears and Fruit Salads in Incubator Performance Assessment. Paper presented at *The Annual High Technology Small Firms Conference*, Manchester, May 2005 (accepted after review) and the *Babson Kauffman Entrepreneurship Conference*, Boston, June 2005 (accepted after review of extended abstract).

Norrman, C., Klofsten, M. & **Bergek, A.** (2005): Public innovation support and innovative ideas. Paper presented at the *Babson Kauffman Entrepreneurship Conference*, Boston, June 2005 (accepted after review of extended abstract).

**Bergek, A.**, Berggren, C. & Tell, F. (2004): Do Innovation Strategies Matter? Paper presented at the *International J. A. Schumpeter Society 10<sup>th</sup> ISS Conference*, Milano, 9-12 June 2004 (accepted after review of extended abstract).

Jacobsson, S. & **Bergek, A.** (2003): Energy System Transformation: The Evolution of Technological Systems in Renewable Energy Technology. In: Jacob, K., Binder, M. & Wieczorek, A. (eds): *Governance for Industrial Transformation*. Proceedings of the 2003 Berlin Conference on the Human Dimensions of Global Environmental Change. Environmental Policy Research Centre, Berlin, 2004, pp. 208-236.

**Bergek, A.** & Berggren, C. (2003): Technological Internationalisation in the Electro-Technical Industry: A Cross-Company Comparison of Patenting Patterns 1986-2000. Paper presented at the conference *What Do We Know About Innovation*, SPRU, Sussex, 13-15 November 2003 (accepted after review of extended abstract).

**Johnson, A.** (2001): Functions in Innovation System Approaches, "electronic paper" vid *Nelson and Winter Conference*, Aalborg, June 2001 (accepted after review).

**Johnson, A.** & Jacobsson, S. (2000): The Emergence of a growth industry – a comparative analysis of the German, Dutch and Swedish wind turbine industry. Paper presented at the conference *Wind Power for the 21<sup>st</sup> Century*, Kassel, 2000 (accepted after review) and published in the conference proceedings.

**Johnson, A.** & Jacobsson, S. (2000): Framväxten av en ny industri – jämförelser mellan den tyska, holländska och svenska vindkraftsindustrin. ("The emergence of a new industry: A comparison of the German, Dutch and Swedish wind turbine industries")

Paper presented at the *Vind 2000 Conference*, Göteborg, 2000 (invited paper). (In Swedish)

**Johnson, A.** & Jacobsson, S. (1999): Inducement and Blocking Mechanisms in the Development of a New Industry: The Case of Renewable Energy Technology in Sweden. Paper presented at *The Fifth ASEAT Conference*, 14-16 september, 1999, Manchester (accepted after review).

**Johnson, A.** & Jacobsson, S. (2000): En tillväxtindustri på frammarsch – vindkraft i Sverige, Tyskland och Holland. ("A Growth Industry in motion: Wind power in Sweden, Germany and Holland") Paper presented at *Energitinget 2000* (accepted after review) and published in the conference documentation. (In Swedish)

**Johnson, A.** & Jacobsson, S. (1999): Teknik för utnyttjandet av förnybara energikällor – en ny svensk tillväxtindustri? ("Renewable Energy Technology: A New Swedish Growth Industry?") Paper presented at *Energitinget 1999* (accepted after review) and published in the conference documentation. (In Swedish)

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SCIENTIFIC PAPERS  
UNDER REVIEW OR  
REVISION

**Bergek, A.**, Bjørgum, Ø, Hansen, T, Hanson, J. & Steen, M. (2019/20): Towards a sustainability transition in the maritime shipping sector: the role of market segment characteristics, submitted to *Environmental Innovation and Societal Transitions* in August 2019 (current status: major revision to be submitted in August 2020).

Onufrey, K. & **Bergek, A.** (2019): "Transformation in a mature industry: the role of business and innovation strategies", submitted to *Technovation* in December 2019 (major revision submitted in June 2020) (current status: under review).

Ulmanen, J. & **Bergek, A.** (2020): "Influences of technological and sectoral contexts on technological innovation systems: the case of bio-succinate from mixed food waste in Sweden", submitted to *Environmental Innovation and Sustainability Transitions* in February 2020 (current status: under review).

Bach, H., Bergek, A. Bjørgum, Ø., Hansen, T., Kenzhegaliyeva, A. & Steen, M. (2020): "Low- and zero-carbon energy solutions in Norwegian coastal maritime transport: a technological innovation system analysis", submitted to *Transportation Research Part D: Transport and Environment* in February 2020 (major revision submitted in May 2020) (current status: under review).

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WORKING PAPERS

**Bergek, A.** & Mignon, I.: "Innovation intermediaries: towards a better understanding of key concepts".

**Bergek, A.** & Aspeteg, J.: "When is a diffusion intermediary an intermediary? The intermediation activities of solar and wind power project developers in Sweden."

Karltorp, K., Hellsmark, H. & **Bergek, A.** (2019): "Directionality challenges and the role of policy in transitions: lessons from the Swedish processing industry".

Blarr, M., **Bergek, A.** & Palm, A. (2019): "Incumbents in transitions: exploring the adoption of different solar business models by Swedish electricity retailers."



PUBLICATIONS IN  
NON-SCIENTIFIC  
JOURNALS AND  
MAGAZINES

Karltorp, K., **Bergek, A.**, Berntsson, T., Hellsmark, H., Fahnestock, J., Sandén, B. & Ulmanen, J. (2019): Forskare: Mer behövs om industrin ska nå nollutsläpp till 2045, *Altinget Miljö & Energi*, 1 oktober 2019 (in Swedish).

Karltorp, K., **Bergek, A.**, Hellsmark, H., Fahnestock, J., Sandén, B., Ulmanen, J. (2019): Staten behöver ta på sig den gula ledartröjan om industrin ska nå nollutsläpp till 2045, *Energivärlden* 2019-11-11 (in Swedish).

**Bergek, A.** (2002): Varför går det så långsamt med förnybar energiteknik? ("Why is the development of the field of renewable energy technology so slow?") *Management of Technology*, No. 2, 2002, pp. 12-13 (in Swedish).

**Johnson, A.** & Jacobsson, S. (2001): Vad gick fel i den svenska vindkraftssatsningen, och vad kan vi göra åt det? ("What went wrong in the Swedish efforts to develop wind power technology and what can be done about it?"), *Mekanisten*, No. 12, 2001 (in Swedish).

**Johnson, A.** & Jacobsson, S. (2000): Teknik för utnyttjande av förnybara energikällor – en tillväxtindustri? ("Renewable Energy Technology: A New Growth Industry?") *Miljö&Hälsa*, No. 1, 2000 (in Swedish).

**Johnson, A.** (1999): Förnybara energikällor – en ny svensk tillväxtindustri? ("Renewable Energy Technology: A New Swedish Growth Industry?"), *Management of Technology*, No. 3, 1999, pp. 3-10 (in Swedish).

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WORKING PAPERS

**Johnson, A.** (1998): "Functions in Innovation System Approaches". Mimeo. Department of Industrial Dynamics, Chalmers University of Technology, Göteborg.

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INTERNATIONAL  
CONFERENCES

- IST conference, Ottawa, June 2019: Presentation of a research paper on the relationship between business and innovation strategies in the pulp and paper industry.
- IST conference, Manchester, June 2018: Presentation of a research paper on sustainability transition in the Norwegian maritime sector.
- SPRU50 Conference, Brighton, September 2016: Presentation of a research paper on diffusion intermediaries in Sweden.
- DRUID Conference, Copenhagen, June 2016: Presentation of a research paper on exploitation for innovation in the Swedish pulp and paper industry.
- International Joseph A. Schumpeter Society Conference, Jena, July 2014: Presentation of a research paper on the dynamics of industry relatedness.
- Elsevier Energy Systems conference, London, June 2014: Poster presentation of a study of pre-implementation concerns regarding the Norwegian-Swedish tradable green certificate system.
- RERC conference, Oslo, June 2014: Presentation of a study of pre-implementation concerns regarding the Norwegian-Swedish tradable green certificate system.
- Lundvall symposium, Aalborg, March 2014: Presentation of research paper on innovation policy from a technology dynamics point of view.
- IST conference, Copenhagen, August 2012: Presentation of two research papers, one on policy for environmental innovation and one on the functions of technological innovation systems framework.
- R&D Management Conference, Norrköping, June 2011: Research paper presentation.
- Technical Change: History, Economics and policy: A Conference in Honour of Nick von Tunzelmann, SPRU, Falmer, March 2010: Research paper presentation.
- High Technology Small Firms conference, Manchester, May 2009: Research paper presentation.
- Vision ERA-Net conference on open innovation, Stockholm, April 2008: Research paper presentation.
- DRUID Tenth Anniversary Summer Conference 2005, Copenhagen, June 2005: Research paper presentation.
- Babson-Kauffman Entrepreneurship Research Conference, Boston, June 2005: Research paper presentation and Poster exhibition
- International J. A. Schumpeter Society 10<sup>th</sup> ISS Conference, Milano, 9-12 June 2004: Research paper presentation.
- What Do We Know About Innovation?, SPRU, Sussex, November 2003: Research paper presentation.
- ICSB World Conference, Brisbane, June 2000: Research paper presentation (invited speaker).

ACADEMIC  
SEMINARS &  
WORKSHOPS

Intermediaries in transitions (TRIPOD workshop), Helsinki, April 2019. Presentation of a research paper on the roles of diffusion intermediaries.

Jan Fagerberg's retirement seminar, Oslo, September 2018: Presentation on "Transformative Innovation Policy" (invited speaker).

TRIPOD project start-up meeting, Helsinki, March 2016: Presentation of a study of diffusion intermediaries.

Seminar at Institute for Economy and the Environment, University of St Gallen, March 2015: Presentation of the results of the NyEl research project.

Open Seminar at TIK, Oslo University, Oslo, October 2011: Presentation of a study of new investors in renewable electricity production in Sweden.

Seminar at TIK, Oslo University, Oslo, May 2010: Presentation of an assessment of the Swedish tradable green certificates system.

Workshop on Technological Innovation Systems, Zürich, April 2010: Presentation of discussion paper.

DIME Workshop on Environmental Innovation, Industrial Dynamics and Entrepreneurship, Utrecht, May 2009: Research paper presentation.

Workshop "Analysing Innovation Networks for Sustainable Energy Technologies", Graz November 2008: Presentation of work on technological innovation systems (invited speaker).

KITE Advanced R&D Management workshop "Integrating Knowledge: A challenge for R&D Management", Linköping, September 2008: Research paper presentation.

TIPS workshop Progressing towards a sustainable electricity system?, Berlin, 27-28 November 2007: presentation of the functions approach to innovation systems framework (invited speaker).

Seminar at SERC, Dalarna University, Borlänge, November 2006: Research paper presentation

Seminar at the division of Environmental Systems Analysis, Chalmers University of Technology, Göteborg, April 2006: Research paper presentation.

"Higher seminar", Department of Management and Economics, Linköping University, February 2006: Research paper presentation.

International workshop on "functions in innovation systems", Utrecht, June 2004: Presentation of my work on functional analysis of innovation system (invited keynote speaker)

Seminar, IIB, Stockholm Business School, Stockholm, April 2003: Discussion on patent analysis.

Seminar, Department of Environmental and Energy Systems, Lund University, December 2000: Research paper presentation.

Seminar, Department of Technology Management, University of Eindhoven, Netherlands, 1999: Research paper presentation.

Seminar, Energy Group, SPRU, Falmer, 1999: Research paper presentation.

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**NON-ACADEMIC  
PRESENTATIONS**

Workshop on transformative innovation policy, Vinnova, Stockholm, May 2019:  
Presentation about the role of intermediaries in transformative change.

Swedish seminar on radical reduction of climate gas emissions in the process industry, Stockholm, November 2018: Presentation on transformative innovation policy.

Chalmers Energy Industry Day, Göteborg, June 2018: Introduction to the theme “How fast can transitions be?”

Swedish Hydro Power Association (SVAF), Linköping, April 2015: Presentation of study of non-traditional investors in renewable electricity production in Sweden.

Swedish Energy Agency, Eskilstuna, March 2014: Presentation of framework for analysis of technological innovation systems.

Workshop Swedish National Energy Agency, Eskilstuna, February 2013: Workshop about new investors in renewable electricity production.

Seminar, Tillväxtanalys/VINNOVA, Stockholm, March 2012: Presentation of the technological innovation systems perspective on policy.

Workshop, VINNOVA, Stockholm, September 2009: Seminar leader in a workshop on functional analysis of sectoral innovation systems.

Seminar, Swedish National Energy Agency, Eskilstuna, August 2005: Presentation of work on functional analysis of innovation systems and research on renewable electricity technologies and renewable vehicle fuels (invited speaker)

Seminar, VINNOVA, Stockholm, April 2005: Presentation of work on functional analysis of innovation systems

Research Programme Conference, AES Programme, Sollentuna, November 2004: Presentation of the research project “Policy Challenges and Options in the Transformation of the (Swedish) Electricity and Transport Sectors”

Ener Forum 5, Bukarest, October 2003: Paper presentation “Policy Challenges in the Transformation of the Energy Sector” (invited speaker)

Seminar, SVEBIO (the Swedish Bioenergy Association), Skokloster, September 2003: Presentation of the results of the Commission on Long-term Energy Research (invited speaker)

Seminar, Swedish National Energy Agency, Eskilstuna, Maj 2003: Research presentation (invited speaker)

Sveriges Energiting 2003, Eskilstuna, March 2003: Research presentation (invited speaker)

Göteborgs Energis "Sommardagar", Göteborg, augusti 2001: Presentation of research project etc. (invited speaker)

Seminar, (Vänsterpartiets miljöseminarium), Visby, July 2001: Research presentation (invited speaker)

Seminar "That's why EU needs an energy policy", Stockholm, April 2001: Presentation (invited speaker)

EnergiRådgivarnas TeknikDagar, Karlstad, November 2000: Research presentation and debate participation (invited speaker)

Seminarium "Solceller – nya förutsättningar" (Solar cells – new conditions), Stockholm, May 2000: Research presentation (invited speaker)

Sveriges Energiting, Eskilstuna, March 2000: Paper presentation

Sveriges Energiting, Eskilstuna, March 1999: Paper presentation

Svenska solenergiföreningen (SEAS), Göteborg, 1998: Presentation of an analysis of the Swedish solar collector industry (invited speaker)

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