

## SENIX Conference - The Role of Social Sciences in a Low-Carbon Energy Mix

Stockholm, June 13-15, 2016

### PROGRAMME

#### Monday, June 13

##### 09.00-10.15 Opening session (Bankettsalen)

Introduction – SENIX now and in the future and social platforms

*Kjell Andersson, Karita Research*

Fairness in energy sector crisis management

*Tomas Kåberger, Chalmers University of Technology, Sweden*      **KEY NOTE**

Current experiences with the involvement of local communities in an early phase of site selection for a deep geological repository for nuclear waste

*Jiri Slovak, Managing Director, SURAO, Czech Republic*      **KEY NOTE**

10.15- 10.45 Coffee break

##### 10.45-12.00 Challenges for a low carbon society (Bankettsalen)

*Chair: Katarzyna Iwinska, Collegium Civitas, Warsaw, Poland*

The greener evil? Chinese hydropower sector goes international and its global implication

*May Tan-Mullins, University of Nottingham Ningbo, China*      **KEY NOTE**

Stakeholder Engagement with carbon capture and storage (CCS) – experiences and challenges

*Kirsty Anderson, Global CCS Institute, UK*      **KEY NOTE**

*Discussion*

12.00 – 13.15 Lunch

##### 13.15-15.00 Energy system efficiency (Parallel session, Bankettsalen)

*Chair: Espen Moe, NTNU, Trondheim, Norway*

Smart Energy Region Zurich 2050 – formative and intuitive Scenarios

*Harry Spiess, ZHAW Zurich University of Applied Sciences, Switzerland*

Energy policy in discourse - the power grid expansion between politics and public opinion in Germany  
*Olaf Kühne and Florian Weber, University of Applied Sciences, Weihenstephan-Triesdorf, Germany*

Cost Minimization of Generation, Storage, and New Loads in a Regional Electric System  
*Lance Noel, Aarhus University, Denmark*

**13.15-15.00 Energy in Buildings and Homes - Part I** (Parallel session, Oscarssalen)  
*Chair: Jenny Palm, Linköping University*

Inviting people to play new roles in the district heating system  
*Sara Renström, Chalmers*

Grounding design of smart grid technology in everyday activities.  
*Lizette Reitsma, Interactive Institute Swedish ICT, Eskilstuna, Sweden*

Cool young things: Youth research peer experiences of energy inefficient homes  
*Kimberley O'Sullivan and Philippa Howden-Chapman, Univ. of Otago*

How flexible is household in their energy consumption? An analysis of the rhythm of everyday life and its consequences for peak shaving  
*Jenny Palm and Mattias Hellgren, Linköping University*

15.00-15.20 Coffee break

**15.20 – 16.20 Challenges ahead - The need for interdisciplinary research**  
(Plenary, Bankettsalen)  
*Chair: May Tan-Mullins, University of Nottingham Ningbo, China*

The State of Energy Studies and the Value of Interdisciplinary Research  
*Benjamin K. Sovacool, University of Sussex, UK* KEY NOTE

The social and political challenges of a low carbon future in the 21st Century: What can economics and economists really offer?"  
*Michael Jefferson, ESCP Europe Business School, London campus, UK.*  
(ESCP = École Supérieure de Commerce de Paris) KEY NOTE

**16.20 – 17.10 Special session - Community of inquiry of the concept of development**  
This session is organized by Tulsa Jansson, PhD student, Applied Ethics at Linköping University, Founder of Swedish Society for Philosophical Practice

17.15 Reception

**Tuesday, June 14**

**08.45 – 10.00 Making difference at the Interface of the Energy Transition** (Parallel session, Bankettsalen)

*Chair: Pia Otte, Centre for Rural Research, Trondheim, Norway*

Challenges in Transition: the legal system's role in a sustainable energy future

*Melina Malafry, Faculty of Law, Uppsala University*

A Tale of Two Communities: Negotiation and Experience at the Interface of the Energy Transition

*Breffni Lennon, Cleaner Production Promotion Unit, School of Engineering, University College Cork, Ireland*

How to de-carbonise the electric energy system? A comparison of Nordic 2030 policies

*Pasi Toivanen, School of Management/Politics, 33014 University of Tampere, Finland*

**08.45 – 10.00 Social Sciences and humanities in nuclear energy and radiation protection – Part I** (Parallel session, Oscarssalen)

*Chair: Peter Johnston, International Atomic Energy Agency*

Social Sciences and Humanities in Context of Nuclear Energy in Slovakia: Outcast? Ignoramuses? Or? Insights gathered within the PLATENSO project

*Gabriel Bianchi, Slovak Academy of Sciences*

Some Ethical Aspects of the Nuclear Waste Issue

*Jessica Lindén, The Swedish Environmental Movement's Nuclear Waste Secretariat*

Building a platform for enhanced societal research related to nuclear energy within New Member States (NMS) in Central and Eastern Europe

*Katarzyna Iwinska, Collegium Civitas, Warsaw, Poland*

**08.45 – 10.00 Energy in Buildings and Homes - Part II** (Parallel session, Ordenssalen)

*Chair: Jenny Palm, Linköping University*

Barriers and enablers for expansion of district cooling – perspective of the property owners

*Sara Gustafsson, Linköping University*

Making numbers count – negotiations in the use of building energy models

*Maria Eidenskog, Linköping University*

Collaboration in urban renewal: A pathway to more sustainable housing transformation?

*Paula Feminias, Chalmers*

The role of energy efficiency in renovation processes - How building professional integrate energy in building renovations

*Katharina Reindl, Linköping University*

10.00 – 10.30 Coffee break

**10.30 – 12.15 Economic and socio-economic aspects of the low-carbon technology transition** (Parallel session, Bankettsalen)

*Chair: Pia Otte, Centre for Rural Research, Trondheim, Norway*

Electricity Markets as an Environment for Low-Carbon Technology Transition: the development of competitive markets in the United States and a search for potential lessons  
*Nathaniel Green, George Washington University Law School, Washington, DC, USA*

Renewable energy deployment and financial performance: Insights from the electric utility industry

*Salvatore Ruggiero, School of Business and Economics, University of Jyväskylä, Finland*

Socio-Economic Aspects of the Nuclear Power Development in NMS Countries

*Marin Constantin, Institute for Nuclear Research, Pitesti, Romania*

**10.30 – 12.15 Social Sciences and humanities in nuclear energy and radiation protection – Part II** (Parallel session, Oscarssalen)

*Chair: Matti Kojo, School of Management, University of Tampere, Finland*

Radioactive Waste Management in the Czech Republic – stakeholders' engagement

*Lucie Steinerova, SURAO - Radioactive Waste Repository Authority, Czech Republic*

Seismic hazard assessment: a challenge for science and geoethics

Nils-Axel Mörner

*Independent Committee on Geoethics (ICG), UK*

*Paleogeophysics & Geodynamics, Stockholm, Sweden*

Where are the stakeholders? Towards a social platform for energy challenges

*Antonio Pereira, Dept. of Physics, Stockholm University, Sweden*

Comparison of print media attention to final disposal of spent nuclear fuel in Finland and Sweden

*Matti Kojo, School of Management, University of Tampere, Finland*

**10.30 – 12.15 Energy in Buildings and Homes - Part III** (Parallel session, Ordenssalen)

*Chair: Jenny Palm, Linköping University*

Effects of IMD on household water use routines – experiences from two Swedish cases

*Helena Köhler, Linköping University:*

Thermal comfort and careful renovation among new Swedes – an interview study

*Annette Henning, Dalarna University*

Re-renovation of pre-1946 housing stock: Combining historical, social and technical knowledge in strategies for energy efficiency and modernization

*Liane Thuvander and Paula Feminias, Chalmers*

12.15 – 13.30 Lunch

**13.30 – 14.40 Social and political challenges on a global scale** (Plenary, Bankettsalen)

Chair: *Kjell Andersson, Karita Research*

Zero Emissions, Zero Conflict: How to make interdisciplinary research on energy successful

*Pia Otte, Centre for Rural Research, Trondheim, Norway*

Global warming and challenges ahead – the potential of thermal energy storage and geothermal heating

*František Alexander Zvrškovec and Cristoffer Källberg, Dividend Industries AB*

14.40 – 15.00 Coffee break

**15.00 – 16.30 Socio-economic impacts – case studies** (Parallel session, Bankettsalen)

Chair: *Tapio Litmanen, University of Jyväskylä, Finland*

Women socio-economic activities and attitudes towards decarbonisation in Poland – the case study of Upper Silesia region in Poland.

*Katarzyna Iwinska, Collegium Civitas, Warsaw, Poland*

Community acceptance of Hydro balancing: Insights from the case of Tyin, Norway

*Øystein Aas, Norwegian Institute for Nature Research, Lillehammer/Oslo, Norway*

Explaining local variations in the diffusion of solar photovoltaics in Sweden

*Alvar Palm, IIIIEE, Lund University, Sweden*

Energyscope – A pragmatic tool to assess the socio-economic impacts of energy transitions

*François Vuillea, Ecole Polytechnique Fédérale de Lausanne -Energy Center, Switzerland,*

**15.00 – 16.30 Social Sciences and humanities in nuclear energy and radiation protection – Part III** (Parallel session, Oscarssalen)

Chair: *Steven Frishman, Consultant, State of Nevada, USA*

The challenge of risk communications in radiation protection for the IAEA

*Peter Johnston, International Atomic Energy Agency*

Social challenges of nuclear human resources scarcity for the energy market. EHRO-N analysis and methodology

*Massimo Flore, European Commission JRC-IET*

Recommendations for social, societal and governance research in nuclear energy in Central and Eastern Europe

*Nadja Zeleznik, Regional Environmental Center for Central and Eastern Europe, Slovenia*

**15.00 – 16.30 Energy transition - social acceptance and energy justice** (Parallel session, Ordenssalen)

*Chair: Gabriel Bianchi, Slovak Academy of Sciences*

Why Did Better Place Fail?: A Post-Mortem Examination of Electric Vehicle Promotion in Denmark and Israel

*Lance Noel, Center for Energy Technologies, Department of Business Development and Technology, Aarhus, Denmark*

The social acceptance of Hydrogen Fuel Cell applications in Europe: results from a seven country study

*Uta Schneider, Fraunhofer ISI, Germany*

Energy Justice in Theory and in Practice: Insights from the Hinkley Point and Sellafield Nuclear Complexes

*K. Jenkins, School of Geography and Geosciences, University of St Andrews, Scotland*

Conference dinner

## Wednesday, June 15

**09.00 – 10.30 Challenges for a successful transition to a low-carbon energy system** (Bankettsalen)

*Chair: Gaston MESKENS, SCK.CEN and Centre for Ethics and Value Inquiry, University of Ghent, Belgium*

Seminar summary - Ethical Perspectives on the Nuclear Fuel Cycle

*Carl Reinhold Bråkenhielm, Chairperson, Swedish National Council for Nuclear Waste*

Chinese overseas hydropower dams: Analysing the nexus of Corporate Social Responsibility, Social Policy and Corporate Welfare

*Johan Nordensvard, University of Southampton, UK*

Linking Society, Industry and Government in Electricity Supply

*Judy Treichel, Nevada Nuclear Waste Task Force, USA*

10.30 – 10.50 Coffee break

**10.50 – 12.00 Challenges for a successful transition to a low-carbon energy system, cont.**  
(Bankettsalen)

Assessing energy security in a low-carbon context  
*Emily Cox, SPRU, University of Sussex, UK*

Leading by example: The role of energy champions in sustainability transitions  
*Stephen Axon, Liverpool John Moores University, UK*

Does politics matter? Explaining policy swings in renewable energy  
*Espen Moe, Department of Sociology and Political Science, Norwegian University of Science and Technology, Trondheim, Norway*

12.00 – 13.00 Lunch

**13.00-15.00 The way forward - Integrating social sciences and humanities into energy research** (Bankettsalen)

*Chair: Michael Jefferson, ESCP Europe Business School, London campus, UK*

Trust, Distrust and Confidence in Energy System Transformation  
*Christian Büscher, Karlsruhe Institute of Technology (KIT), Institute for Technology Assessment and Systems Analysis (ITAS), Karlsruhe, Germany*

Good science for better policy making – a reflection on the idea of integrating social sciences and humanities into energy research.  
*Gaston MESKENS, SCK.CEN and Centre for Ethics and Value Inquiry, University of Ghent, Belgium*

Discussion and recommendations: A Social Platform - What is the niche of SENIX?

## **POSTERS (Bankettsalen)**

P1. Low Carbon Transition for Energy System Sustainability: Considering the Human Factor in the Energy System

*Stephen Axon, School of Natural Sciences and Psychology, Liverpool John Moores University, UK*

P2. Social Enterprise and Low Carbon Transition – An Explorative Analysis

*Joanne Hillman, School of Natural Sciences and Psychology, Liverpool John Moores University, UK*

P3. Renewable energy sources towards social challenges in sustainable development and low carbon economy

*Svetlana Stevovic, Faculty of Ecology and Environmental Protection, University Union Nikola Tesla, Serbia*

P4. Extending the national power grid in Germany - Analysis of the public discourse on health impacts of high-voltage power lines: Results and recommendations for radiation protection

*Cornelia Egblomassé-Roidl, Federal Office for Radiation Protection, Neuherberg, Germany*

P5. Effect of Capitalization of Water Resources on Development of the Regional Socio-Economic Systems

*Svitlana Fedulova, Ukrainian State University of Chemical Technology, Dnipropetrovsk, Ukraine*