

PROGRAMME

Joint Actions on Climate Change



Theme 1: Sustainable Consumption & Production

Theme Chairs:

Kirsten Schmidt, AAU, Denmark

Stig Hirsbak, PREPARE, Denmark

Programme

Theme 1: Sustainable Consumption & Production comprise the following sessions, which are elaborated below:

- A. Policy
- B. Lifestyle
- C. Understanding the Technical Essence

Tuesday June 9 – 11.30-12.15

Session 1 - Joint Kick-off: SCP in Europe - Policy developments and the link to climate change

Room: Laugstuen

Chairs: Almut Reichel, European Environmental Agency, SCP Group and Mikkel Stenbæk Hansen, European Topic Centre on SCP

A. POLICY

Tuesday June 9 – 12.15-13.00

Session 2 - Innovative Policy Instruments and bottom-up initiatives for an SCP action plan I

Room: Latinerstuen

Chair: Michael Kuhndt, UNEP/Wuppertal Institute Collaborating Centre on Sustainable Consumption and Production, Germany

1. Effectiveness of Policy Instruments for SCP. A. Tukker
2. Evaluating Sustainable Consumption Policies and Practices: Gaps, white spots and future developments. O. Mont

Tuesday June 9 – 14.30-16.00

Session 14 - Innovative Policy Instruments and bottom-up initiatives for an SCP action plan II

Room: Latinerstuen

1. Systemic Approaches to Innovation: some lessons to sustainable consumption and production. F.J.D. Lopez
2. Innovative Approaches to Strengthen Sustainable Consumption. F. Rubik

3. The Implementation of Climate Change related policies at two European Union countries: A comparative analysis between Denmark and Italy. V. A. C. da Silva and V. Liso
4. Government policies for promoting eco-innovation: a survey of 10 OECD countries. T. Machiba

Tuesday June 9 – 16.30-18.30

Session 27 - Tools for Decision Making in Organizations

Room: Latinerstuen

Chair: Theo de Bruijn, University of Twente, The Netherlands

1. Life cycle thinking in decision-making towards sustainable governance. J. Zhang, P. Christensen, L. Kørnøv
2. Input-Output Analysis and Environmental Management Systems. S. Løkke, J.H. Schmidt, D. Christensen
3. Managing environmental impact from organisations in the service sector. S. Emilsson and L. Sharifian

Wednesday June 10 – 9.00-11.00

Session 39 - Blueprint on SCP (Workshop)

Room: Latinerstuen

Chair: Arnold Tukker, TNO, the Netherlands

May 26, 2009, the largest environmental NGO in Europe, the European Environmental Bureau (EEB), presented a Blueprint on Sustainable Consumption & Production. The Blueprint was edited by Doreen Fedrigo (EEB) & Arnold Tukker (TNO), see http://www.eeb.org/publication/2009/0905_SCPBlueprint_FINAL.pdf The Blueprint was written with support of various scientists earlier engaged in the SCORE! network, and also lend inspiration from the SCORE! document a 'Framework for Action for SCP'.

The Blueprint aims to provide a comprehensive, coherent and realistic strategy plan for realizing SCP in Europe. It provides both support to and contrasts with the most important international policy approaches on SCP, as reflected in the EU's SCP/CIP action plan and the UN's Ten Year Framework of Programs on SCP.

The workshop centres around the following questions:

1. What are the problems of current SCP policy settings?

Many NGOs and sustainability scientists find progress in the SCP dossier slow. Yet, simple calls for stronger measures by NGOs and scientists have little value since too often policy entrepreneurs seeking the implementation of effective measure face fundamental problems such as a lack of support, legitimacy etc. What are such key blocking factors for progress?

2. What strategies need to be in place for realizing successful SCP policy settings?

The Blueprint suggests some strategies of fostering momentum and legitimacy for more far-reaching change, such as niche experiments, enlarging the evidence base for change, and deliberative activities. Are these the right ones? Can these be effective? What other strategies can be thought of?

3. How can the scientific community best help in this and how should it be

organized for this?

Workshop program:

- Presentation of the Blueprint on SCP, dr. Arnold Tukker, TNO
- Reaction of a panel on the 3 key questions
 - Dr. Theo de Bruijn, TU Twente/co-ordinator GIN network, Netherlands
 - Philip Vergragt, initiator SCP America network, US (invited)
 - Eivind Sto, SIFO, Norway (SCORE co-ordination team member)
 - Irmgard Schultz, ISOE, Germany (reviewer, Blueprint)
- Discussion with the audience. Note: in case of a high number of attendees discussion will be held in break-out groups with plenary feedback.

B. LIFESTYLE

Tuesday June 9 – 12.15-13.00

Session 3 - Sustainable consumption and the interaction between everyday life styles and systems of provision I

Room: Laugstuen

Chairs: Martina Schaefer and Melanie Jaeger, Center for Technology and Society, Berlin Institute of Technology, Germany

1. Consumer decision-making regarding a "green" everyday product . J. Thøgersen, A. K. Jørgensen, and S. Sandager
2. Energy consumption in organizations – An intervention to change routines . E. Matthies, N. Hansmeier, and H. J. Wagner

Tuesday June 9 – 14.30-16.00

Session 15 - Sustainable consumption and the interaction between everyday life styles and systems of provision II

Room: Laugstuen

1. Subjective and Objective Maps - the Relation Between Appropriation of Space and Consumption Infrastructure . M. Jaeger and M. Schaefer
2. Unpacking sustainable lifestyles: the role of individual action in relation to systems of provision. W. Abrahamsen and D. Evans
3. Translating Consumption: the process of constructing demand for products in a consumer electronics firm. J. Spinney
4. Tendencies of Ethical Traceability – Cases From Organic, Artisan and Conventional Bacon Supply Chains. N. H. Kristensen and T. Nielsen

Tuesday June 9 – 16.30-18.30

Session 28 -Changing Consumer Lifestyles

Room: Laugstuen

Chair: Eva Heiskanen, National Consumer Research Centre, Finland

1. Gender, lifestyles and climate change. I. Stuess and I. Schultz

2. The Future of European Energy Label. E. Stø
3. EcoTopTen Scenarios for sustainable consumption – reduction potentials due to the use of energy efficient products. D. Quark
4. Succeeding in Business by Managing Consumption – a more sustainable approach to selling for manufacturers. A. R. Tan, T. McAlloone and S. Evans

Wednesday June 10 – 09.00-11.00

Session 40 - Changing Lifestyles and Creating Markets

Room: Laugstuen

Chair: Oksana Mont, Lund University, Sweden

1. A Quality Strategy for Sustainable Development?. M. Thrane and E. H. Nielsen
2. Food choice and consumer behaviour – Achieving sustainability by preventing childhood obesity. L. Reisch and W. Gwozdz
3. Product Service Systems: Opportunities to improve sustainability. D. Buschak, M. Schröter, K. Ostertag and C. Gandenberger
4. Aiming high with low carbon: Lessons to be learned from environmental friendliness in procurement and use. S. Reijonen
5. Exploring socially responsible purchasing in Swedish organisations. O. Mont and C. Leire

Wednesday June 10 – 11.30-13.00

Session 51 - How to work collectively with the retailer sector for effective communication of product chain information to consumers? (Workshop)

Room: Laugstuen

Chair: Burcu Tuncer, UNEP/Wuppertal Institute Collaborating Centre on Sustainable Consumption and Production, Germany

Recently, there has been many company, sector level, governmental and international initiatives set-up to discuss communication challenges in the retailers' value chains. At this workshop, participants will hear about the recent developments and learnings. They will make a facilitated contribution to solutions and research needs on how retailer and manufacturing companies as well as their stakeholders can work together to improve consumer communication of product life cycle information.

Impulse presentations followed by a World Café discussion:

1. The role of retailer companies in enhancing communication of life cycle information - A European map of initiatives and future prospects. B. Tuncer
2. Communicating environmental and ethical aspects at the shop floor level. Examples from Nordic retailers. K. Schmidt
3. World Café Discussion

C. UNDERSTANDING THE TECHNICAL ESSENCE

Tuesday June 9 – 12.15-13.00

Session 4 - Climate Change and the Building Sector

Room: Albatros

Chair: Stig Hirsbak, PREPARE, Denmark

1. Financial and quality evaluation of dwelling types. C. Spirinckx, A. Vercauteren, T. Geerken, K. Allacker and F. De Troyer
2. Integration of LCA and LCC for decision making in sustainable building industry. G. Liu

Tuesday June 9 – 14.30-16.00

Session 16 - Case studies: LCA approach to Greenhouse Gases

Room: Albatros

Chair: Nilgun Ciliz, Bogazici University, Turkey

1. Comparative LCA Approach for sustainable transport fuel production from waste cooking oil and rapeseed. I. Özata, N. Ciliz, A. Mammadov, B. Buyukbay and E. Ekinci
2. Sustainability LCA of Biofuels. T. Ketola and T. Myllylä
3. Landfill gas utilization for energy to avoid greenhouse gas emissions. A. Niskanen
4. Environmental impacts from digital solutions as alternative to conventional paper solutions. A. Schmidt and N. Hedal Kløverpris

Tuesday June 9 – 16.30-18.30

Session 29 - Cleaner Production and Eco-Efficiency

Room: Albatros

Chair: Leo Baas, Linköping University, Sweden

1. Optimizing Resource Efficiency and Carbon Intensity in the Wood Processing Sector in Austria. A. Windsperger, B. Windsperger, C. Ott and M. Hummel
2. Options for Environmental Sustainability of the Biodiesel Industry in Thailand. O. Chavalparit
3. Promotion of Material Efficiency through Regional Action. R. Lilja
4. Development of Material Flow Account and Evaluation of the Regional Eco-Efficiency in Shiga Prefecture, Japan. A. Hayashi and T. Niren
5. A common ecosystemic currency for assessing regional tradeoffs in ecosystem services. M. Köchy

Wednesday June 10 – 09.00-11.00

Session 41 - Making Carbon Footprints by using input-output in a hybrid LCA

(Workshop)

Room: Albatros

Chair: Jannick Schmidt, AAU, Denmark

The workshop will focus on how to carry out carbon footprint studies using a combination of process-based LCA and IO-LCA, i.e. a hybrid approach. The set-up is mainly a hands-on and workshop form, where participants solve identified challenges through workshops. A few essential lectures will be held by leading scientists within the field. In the workshops, the LCA software used is SimaPro 7. The workshop is followed by a Ph.D colloquium covering this issue and others.

Background

Carbon footprint as well as input-output LCA (IO-LCA) are fields which face significant growth the latest years. Carbon footprint is used for documenting GHG emissions

related to products in a life cycle perspective, and GHG emissions related to a company's activities including upstream and possibly downstream exchanges.

The traditional approach for carbon footprinting is the so-called process-based LCA, where a number of unit processes are identified, and defined as being part of the product system. These unit processes are usually connected via physical flows (based on engineering knowledge). A major problem related to process-based LCA is the applied cut-off rule. Cut-off rules specify processes which are not included in the product system. Typically, service inputs such as business travelling, marketing, consultancy, accounting, legal assistance, education etc. are not included. Also, sometimes capital goods (buildings, machinery etc.) are not included. Despite the fact that cut-off rules exclude many potentially significant GHG emission contributors, they can seldom be consistently applied. According to the PAS2050 and the ISO 14044 cut-off criteria may be environmental significance. However, since the environmental significance is first known when the inputs of concern are inventoried, such criteria are problematic for the LCA practitioner.

To overcome the problems of cut-off rules, IO-LCA data can be used "to fill the gaps" in the process-based LCA. IO-data are based on a nation's total economic transactions combined with total emissions accounts (NAMEAs). Therefore, such data do by definition not imply any cut-off rules – all transactions and all emissions are included.

The workshop is followed by a Ph.D colloquium during which the Ph.D students present their studies, get feedback, and solve identified challenges. The student presentations will be supplemented with expert inputs and short lectures.

Wednesday June 10 – 11.30-13.00

Session 52 - From Climate Strategy to Solution Implementation

Room: Albatros

Chair: Jan Poulsen, PE North West Europe, Denmark

PE INTERNATIONAL, one of the biggest companies of sustainability experts with a broad variety of services, can cover almost every sustainability issue and combines strategic consulting and operational implementation to create a unique solution package. We provide the tools and know-how to develop more eco-efficient products, and calculate the direct consequence on the overall environmental baseline for the company.

Anna Pickering, environmental product designer at Tesco, says: "The tool PE INTERNATIONAL has developed for us based on the i-report software enables us to consider the environmental impact of the choices and decisions we make without overcomplicating the whole subject matter."

We will demonstrate how our GaBi software family can be used to incorporate sustainability into your products and services. At the workshop we will showcase real life applications of our solutions for product sustainability including eco-design, supply chain management and sustainability communication. The different modules in the GaBi 4 software family range from expert tools that can be used with a high level of detail, to simplified user-interfaces for non-experts within product innovation and marketing.

If you have a specific case you would like to analyse please visit our booth or ask for a GaBi 4 demo CD. Here you can meet our experts and discuss your challenges and requirements.

Wednesday June 10 – 14.30-15.30

Session 63 – Theme Perspectives & Closing

Room: Laugstuen

Chairs: Arnold Tukker, TNO, the Netherlands, and Stig Hirsbak, PREPARE, Denmark



UNIDO side event

Wednesday June 10 – 11.30-13.00 ,

Room: Latinerstuen

“Greening industries and services in Eastern and Central Europe”.

1. Introduction and Case 1-“ Sustainable Tourism in Bulgaria and Romania”, Pilar Murillo, UNIDO
2. Case 2- CP in the metalworking industry, cookware METALAC, Branko Dunjic, Director of the Serbian NCPC
3. Case 3- “BOMEX company: Competitiveness through implementation of the cleaner production technologies”, Atanas Kokov, Director of the Macedonian NCPC
4. Case 4-“Integral management of municipal solid waste in Havana, Cuba”, Pilar Murillo, UNIDO



Theme 2: Sustainable Innovation & Eco-design

Theme Chairs:

Arne Remmen, AAU, Denmark
Ulrik Jørgensen, DTU, Denmark
Ursula Tischner, Econcept, Germany

Programme

Theme 2: Sustainable Innovation & Eco-design is divided into the following sessions, which are elaborated below:

A. ECO-DESIGN

- Eco-design & Product Development
- Sustainable Innovations
- Eco-design Implementation
- Future Directions of Capacity Building for Eco-design
- Can Design for Sustainability change the world?

B. SUSTAINABLE TRANSITIONS

- Policy, Learning & Innovation
- System Innovation & Transition I
- System Innovation & Transition II

C. USER-DRIVEN INNOVATION FOR SUSTAINABILITY

- User and Stakeholder Involvement in Sustainable Innovation
- User-driven Innovation
- User Involvement in Sustainable Innovation

A. ECO-DESIGN

Tuesday June 9 – 11.30-13.00

Session 6 - Eco-design and Product Development

Room: Bondestuen

Chair: Ursula Tischner, Econcept, Germany

1. The creativity gap? – bridging creativity, design and sustainable innovation. S. O'Rafferty, D. F. O'Connor, and H. Curtis

2. Making Ecodesign Simpler than Ever Before: Experiences from empirical intervention. T. C. McAloone and N. Bey
3. Integration of environmental technology in modularised production systems in the automotive industry. T. Christensen

Tuesday June 9 – 14.30-16.00

Session 18 - Sustainable Innovations

Room: Bondestuen

Chair: Ursula Tischner, Econcept, Germany

1. Sustainable Innovation - organization and goal finding. L. Hassi
2. Spelling the Domain of Sustainable Product Innovation Research. C. Boks and T. C. McAloone
3. Design Study for a European LIVING LAB Research Infrastructure to stimulate the adoption of, sustainable smart and healthy innovations around the home. M. Krekeler, M. Lettenmeier, and C. Liedtke
4. A reflexion on the consequences of multifunctionality on long term sustainability with district heating as a case study. A. L. Vernay, K. F. Mulder, and K. Hemmes
5. Tri-generation in the built environment. G. de Werk, K. Hemmes, L. Kamp, and A. L. Vernay

Tuesday June 9 – 16.30-17.30

Session 31 - Eco-design Implementation

Room: Bondestuen

Chairs: T. McAloone and N. Bey

The Ecodesign Implementation workshop will be held by members of the Design Society's Ecodesign Special Interest Group. Our approach will be to take a series of different views on one common industrial product, regarding its environmental properties and improvement potential. This way, one common object will act as a vehicle for the benchmarking of different environmental analysis and synthesis approaches, allowing the active participants in the workshop to compare and discuss their methods and recommendations.

All are welcome to participate in the workshop and observe the activities of the session. Furthermore we invite volunteers to become active participants in the workshop, in order to apply their own methods on the common product. We have room for 2-3 more participants. The workshop will sum up into a discussion of the merits and challenges of all approaches applied and especially also to the challenges of implementing ecodesign tools into real life industrial contexts.

Wednesday June 10 – 11.30-13.00

Session 54 - Can Design for Sustainability change the world? (Visionary panel debate organised by Ursula Tischner)

Room: Bondestuen

Debaters/ visionary thinkers (to be confirmed):

- Pascal Soboll, IDEO, USA and Europe
- Conny Bakker, TU Delft, The Netherlands,

- Cristina Rocha, INETI, Portugal
- Chris Ryan, University of Melbourne, Australia
- Arnold Tukker, TNO, The Netherlands
- Ursula Tischner, econcept, Germany

Format: Five minutes statements of each expert, followed by podium discussion and discussion with the audience.

Wednesday June 10 – 14.30-15.30

Session 65 - Mainstreaming Design for Sustainability: Framework of Actions

Room: Bondestuen

Chair: Dr. Frank O'Connor, Ecodesign Centre, Cardiff. UK

Panellist: Simon O'Rafferty, Ecodesign Centre, Cardiff, UK

This breakout session will convene a meeting of researchers and practitioners working directly with industry in the delivery of innovation support, applied research or public funded consultancy to share knowledge and experience on current methods and models of ecodesign intervention. The objective of the workshop will be to map out current intervention models and practices, identify competency and policy gaps, identify areas of commonality, explore options for networking and knowledge transfer and suggest a common statement/platform for moving the agenda forward in Europe and in co-operation with international partners. The workshop is also open to design educators and any other stakeholders with an interest in mainstreaming ecodesign.

B. SUSTAINABLE TRANSITIONS

Tuesday June 9 – 11.30-13.00

Session 5 - Policy, Learning & Innovation

Room: Gæstesalen

Chair: Ulrik Jørgensen, Technical University of Denmark

1. The development and implementation of Photovoltaic Solar Power in Japan - A Functions of Innovation Systems analysis. L. Kamp, M. Prent
2. Stimulating sustainable energy innovation through policy learning and joint action. B. Gregersen, B. Johnson
3. Low Carbon Innovation Policies: from National Competitiveness to Global Leverage. L. Linnanen
4. Framing System Innovation for Policy Makers and Industry: A Challenge for Going Beyond Incremental Change. T. Machiba

Tuesday June 9 – 14.30-16.00

Session 17 - System Innovation & Transition I

Room: Gæstesalen

Chair: Ulrik Jørgensen, Technical University of Denmark

1. Alliance contracting – a business model to support sustainability and facilitate innovation and action on climate change? M. Gollagher
2. System Innovation for Sustainability: A Risk-Based Double-Flow Scenario Method for Product Development Teams of Manufacturing Companies. A. I. Gaziulusoy, C. Boyle and R. McDowall

3. Can Innovations in the Supply Chain Lead to Reduction of GHG Emissions from Food Products? A Case Study. G. Nereng, A. Romsdal and A. Brekke
4. "But don't you want a Danish solution?" - Ignorance, denial, tradition and other transition elements in the 15 years delayed uptake of the Passive House concept in Denmark. E.H. Lauridsen

Tuesday June 9 – 16.30-18.30

Session 30 - System Innovation & Transition II

Room: Gæstesalen

Chair: Birgitte Gregersen, Aalborg University, Denmark

1. A new role for eco-design: envisaging future systems, revealing the hidden present. C. Ryan
2. Design as a problem and design as a solution for sustainability. N. Morelli
3. Model for a Sustainable Energy Concept for Austria. A. Windsperger and M. Hummel
4. Explicit climate investments as a tool for societal advancement. R. Karlsson, M. Paulsson
5. No smooth energy transitions in sight - experiences from the turbulent history of renewable energy. U. Jørgensen

C. USER-DRIVEN INNOVATION FOR SUSTAINABILITY

Wednesday June 10 – 09.00-11.00

Session 42 - User and stakeholder involvement in sustainable innovation and scenarios: what can be learnt and how to put this into practice?

Room: Gæstesalen

Chairs: Jaco Quist and Conny Bakker, Delft University of Technology, Delft, NL

Overview: User-centred innovation is increasingly applied in innovation and product development. However, in sustainable innovation it has been largely neglected so far, though first pilots and cases are emerging. By contrast, in the field of sustainability studies, system innovations and transitions to sustainability, stakeholder participation is quite common through stakeholder dialogues and participatory generation of normative scenarios and desirable visions. However, the level of stakeholder influence in related decision making and implementation varies considerably from limited consultation of stakeholders till full control. This session seeks for papers that report on user and stakeholder involvement in sustainable innovation, sustainable scenario generation and stakeholder dialogues as well as papers that compare these practices. The session also aims to facilitate a discussion between researchers and practitioners from different disciplines in order to compare practices, identify best practices and discuss how practices and their practitioners can learn from each other, as well as to define actions how this can be implemented.

1. Stakeholder and user involvement in backcasting and how this influences follow-up and spin-off. J. Quist
2. Combat climate change – do open innovation methods help? M. Arnold and S. Ramakrishnan
3. Framing the role of technology in transformation of consumption practices: beyond user-product interaction. I. N. Pettersen
4. Co-design, social practices and sustainable innovation: involving users in a living lab exploratory study on bathing. K. Scott, C. Bakker, and J. Quist

Wednesday June 10 – 11.30-13.00

Session 53 - User-driven Innovation

Room: Gæstesalen

Chairs: Jaco Quist, Delft University of Technology, The Netherlands; Eva Heiskanen, National Consumer Research Centre, Finland

1. Creating Lasting Change in Energy Use Patterns through Improved User Interaction. E. Heiskanen, M. Johnson, M. Saastamoinen, and E. Vadovics
2. Co-design of products enhancing energy-responsible practices among users. F. Jégou, J. Liberman, and G. Wallenborn
3. User-driven Points for Feedback Motivated Electricity savings in Private Households. A. M. Kanstrup and E. Christiansen
4. User-inspired design. User needs vs. mass customization. M. A. Sbordone

Wednesday June 10 – 14.30-15.30

Session 64 - User Involvement in Sustainable Innovation

Room: Gæstesalen

Chair: Eva Heiskanen, National Consumer Research Centre, Finland

Overview: Addressing climate change calls for radical technological and social innovations. Most of the discussion has focused on innovations developed by experts, and the role of users has gained less attention. Users can develop innovations of their own, or they can contribute to the development and acceptability of innovative solutions in co-design processes. This session proposal aims to explore different ways in which users can be involved in the development of sustainable innovations, experiences gained from user involvement, and future avenues for engaging users in sustainable innovation.



Theme 3: Climate Cities & Regions

Theme Chairs:

Carla Smink, AAU, Denmark

Kim Christiansen, Danish Standards, Denmark

Programme

Theme 3: Climate Cities & Regions is divided into the following sessions, which are elaborated below:

- A. Carbon Capture & Storage
- B. Industrial Symbiosis & Eco-industrial Parks
- C. Towards Sustainable Mobility
- D. Local Climate Actions
- E. Energy+ Houses
- F. Renewable Energy & Climate Cities
- G. Sustainable Territories & Alternative Climate Futures

A. CARBON CAPTURE & STORAGE

Tuesday June 9 – 11.30-13.00

Session 7 - Carbon Capture & Storage I

Room: Musiksalen

Chair: Philip Vergragt, Tellus Institute, USA

1. The politics of carbon capture and storage. J. Meadowcroft
2. Carbon capture and storage at Vattenfall, Nordjyllandsværket. N. O. Knudsen
3. Is Mineral Carbonation for CO₂ storage a clean technology? J. Petrie
4. LCA as an Ecodesign Tool for Production of Electricity, Including Carbon Capture and Storage - a Study of a Gas Power Plant Case with Post-Combustion CO₂ Capture at Tjeldbergodden, Norway. C. A. Nyland, I. S. Modahl, H. L. Raadal, O. Kårstad, T. A. Torp, and R. Hagemann

Tuesday June 9 – 14.30-16.00

Session 19 - Carbon Capture & Storage II

Room: Musiksalen

1. CCS: the next technological lock-in? P. J. Vergragt
2. Advantages and Disadvantages of Carbon Capture and Storage as Identified by Key Stakeholders in a U.S. Context. T. R. Peterson, J. C. Stephens, and E. J. Wilson
3. CCS – A new Solution or a new Problem? P. Bendsen

B. INDUSTRIAL SYMBIOSIS & ECO-INDUSTRIAL PARKS

Tuesday June 9 – 11.30 - 13.00

Session 8 - Industrial Symbiosis & Eco-industrial Parks

Room: Det Lille Teater

Chair: John Kryger, The Kalundborg Centre for Industrial Symbiosis, Denmark

Moderator: Søren Kerndrup, AAU, Denmark

1. Quantifying the Potential and Cost-effectiveness of Industrial Symbiosis to Mitigate Greenhouse Gas Emissions. H. Shi
2. Industrial Symbiosis in Biofuel Production Industries: A Categorization of Synergies. M. A. Martin, J. J. M. Ivner, and N. Svensson
3. Industrial symbiosis in the energy sector. T. Christensen and T. Kjær

C. TOWARDS SUSTAINABLE MOBILITY

Tuesday June 9 – 14.30-16.00

Session 20 – Sustainable Mobility

Room: Radiosalen

Chair: Petter Næss, AAU, Denmark

Moderator: Tim Richardson, AAU, Denmark

1. Changing frames of mobility through radical policy interventions? The Stockholm congestion tax. T. Richardson, K. Isaksson, and A. Gullberg
2. Sustainable Campus Commuting Management at Aalborg University. S. Løkke, D. Christensen, and P. Næss
3. Freight transports and the Market Challenges for Achieving Sustainable Mobility . C. Lammgård

Tuesday June 9 – 16.30- 18.30

Session 32 - Towards Sustainability Mobility: Electrical, Hydrogen or Both?

Room: Radiosalen

Chair: Sascha Silvester, Delft University of Technology, the Netherlands

Moderator: Jaco Quist, Delft University of Technology, the Netherlands

1. Electric vehicles are here to stay! The role of design as interface between user and technology. S. K. Beella and S. Silvester
2. Advent of electric vehicles: towards a research agenda. S. Silvester, J. Quist, C. Hellinga, S. Van Dijk, and C. De Bont
3. The bike is back with a battery. F. van Der Hoeven
4. Backcasting for sustainable mobility and domestic power provision: a new perspective on fuel cell vehicles for decentralised power production. J. Quist and K. Hemmes

D. LOCAL CLIMATE ACTION

Tuesday June 9 – 14.30-16.00

Session 21 - Local Climate Actions I

Room: Det Lille Teater

Chair: Kim Christiansen, Danish Standards, Denmark

Moderator: Christina Rocha, INETI, Portugal

1. Climate Communities - a springboard to explore climate action at the local level. Finn Bro-Rasmussen
2. Sustainability transitions, globalization and regionalization. U. Pesch
3. The City of Short Distances - a new model for sustainable urban development. C. Ryan
4. Sustainable Communities, W. Clark

Tuesday June 9 – 16.30-18.30

Session 33 - Local Climate Actions II

Room: Det Lille Teater

Chair: Kim Christiansen, Danish Standards, Denmark

Moderator: Christina Rocha, INETI, Portugal

1. Safe Harbor: Waterfront Development in a Changing Climate. M. U. Larsen, P. A. Driscoll, and C. G. Mikkelsen
2. Climate change action plans for municipalities. L. Kørnøv and J. Lars Overgaard
3. Climate and eco-adaptation in housing and construction -regional transition strategies. J. Holm, I. Stauning, and B. Søndergård
4. Developing a CO₂-Management System for Public Authorities. E. Guenther, J. Friedemann, and K. Stechemesser
5. Energy City Frederikshavn – 100% based on Renewable Energy in 2015. M. Kau

E. ENERGY+ HOUSES

Wednesday June 10 – 09.00- 11.00

Session 43 - Energy+ Houses I

Room: Musiksalen

Chair: Per Heiselberg, AAU, Denmark

Moderator: Carolin Spirinckx, VITO, Belgium

1. Cheap and Beautiful: Explaining Energy Inefficiency within Construction. S. Reijonen and S. Georg
2. Delivering zero carbon housing in a free-market economy. J. Williams
3. Bridging the gap between economic and ecologic efficiency by individual energy consultancy. M. Steinestel, H. Meinel, U. Sieverding, and P. Maier
4. Architecture and Energy. Strategies for a Changing Climate. M. Lauring and R. Marsh
5. The shaping of new sustainable housing concepts in Denmark. M.S. Jørgensen, E.H. Lauridsen, M.B. Quitzau, J.O. Jensen, M. Elle and A. Bilfeldt

Wednesday June 10 – 11.30 - 13.00

Session 55 - Energy+ Houses II

Room: Musiksalen

Chair: Per Heiselberg, AAU, Denmark

Moderator: Carolin Spirinckx, VITO, Belgium

1. Refurbishment or Replacement of Buildings – What is Best for the Climate? A. Rønning and M. Vold
2. "Environmental reporting practice in the Swedish construction industry: Diachronic and synchronic perspectives". Sara Jonasson, Construction Management, Chalmers University of Technology, Gothenburg, Sweden
3. The first Comfort Houses in Denmark – Experiences of difference design processes. C. Brunsgaard

F. RENEWABLE ENERGY & CLIMATE CITIES

Wednesday June 10 – 09.00- 11.00

Session 44 - Renewable Energy & Climate Cities I

Room: Radiosalen

Chair: Finn Bro-Rasmussen, The Danish Society for Nature Conservation, Denmark

1. Renewables - important challenges for transmissions system operators. O. Marin and V. Radu
2. Renewable Energy and Regionalisation. Y. Krozer and N. Hopman
3. Local energy planning in cooperation. J. J. M. Ivner
4. Towards carbon-neutral heat supply: Heat Atlases as a planning tool for climate conscious cities. B. Möller
5. Carbon Emission Reduction in Shanghai: Responding to Climate Change Mitigation. D. Niu
6. Developing a Model of the Irish Energy System. D. Connolly

Wednesday June 10 – 11.30 - 13.00

Session 56 - Renewable Energy & Climate Cities II

Room: Radiosalen

Chair: Finn Bro-Rasmussen, The Danish Society for Nature Conservation, Denmark

1. Emerging Governance Systems for Renewable Energy – The Case of Danish Municipalities. K. Sperling
2. Comparative Study of the Potential of Renewable Energy Sources and Solutions in Denmark and China. W. Liu
3. Mechanism to Promote QUALITY of Transmission Service. Otilia Marin and Violeta Radu
4. Biodiesel, a Carbon Neutral Alternative fuel to Petroleum Diesel . I. Farag

G. SUSTAINABLE TERRITORIES & ALTERNATIVES CLIMATE FUTURES

Wednesday June 10 – 09.00-11.00

Session 45 - Sustainable Territories and Alternative Climate Futures I

Room: Det Lille Teater

Chair: Tarla Rai Peterson, Texas A&M University

1. A Sustainable Sønderborg: Partnership for achieving significant CO₂ –emission reductions in 'no time'. M. Vestergaard
2. Climate Solution Thy & Mors, H.P. Korsgaard and B. Bolt-Jørgesen
3. C2C – Sustainable Islands, A. de Vries
4. Sustainable Urban Infrastructure, J.F. Pedersen

Wednesday June 10 – 11.30-13.00

Session 57 - Sustainable Territories and Alternative Climate Futures II

Room: Det Lille Teater

Chair: Tarla Rai Peterson, Texas A&M University

1. Regional socio-political factors influencing deployment of emerging energy technologies for climate change mitigation in the United States: Comparative study of three states. T. R. Peterson, J. C. Stephens, and E. J. Wilson
2. Steps towards a 100% renewable energy system for Denmark in the Future Climate project. B.V. Mathiesen

Wednesday June 10 – 14.30-15.30

Session 66 – Theme Perspectives & Closing

Room: Det Lille Teater

Chairs: Kim Christiansen, Danish Standards, Denmark; and Carla Smink, Aalborg University, Denmark

1. Energy Management – a Standard for Handling Energy & Climate Activities. K. Christiansen



Theme 4: Governance & Climate Mitigation

Theme Chairs:

Niels Vestergaard, SDU, Denmark

Martin Lehmann, AAU, Denmark

Programme

Theme 4: Governance & Climate Mitigation is divided into the following sessions,:

- A. PUBLIC-PRIVATE PARTNERSHIPS, NETWORKS AND GREEN NEW DEAL
- B. HOSPITALITY, GREEN EVENT MANGEMENT AND TOURSIM
- C. FOOTPRINTS ,LABELLING & PROCUREMENT
- D. INTEGRATED POLICIES & REGULATION
- E. OPPORTUNITIES AND CHALLENGES FOR EMERGINGN ECONOMIES AND THE ROLE OF TECHNOLOGY TRANSFER

A. PUBLIC-PRIVATE PARTNERSHIPS NETWORKS AND GREEN NEW DEAL

Chairs: Martin Lehmann, Aalborg University; Andy Gouldson, University of Leeds

Tuesday June 9 – 11.30-13.00

Session 9 – Partnerships & Networks I

Room: Harlekin

Moderator: Sanne Nielsen

1. Promoting Transitions to a Low Carbon Economy: Anticipating the Sticking Points. A. Gouldson
2. Environmental Sustainability in the Russian Federation: Assessing the Potential for new forms of 'societal governance'?. J. Crotty and P. Rodgers
3. Green Networks: 15 Years of Danish Experience. M. Lehmann, S. Kerndrup, C. K. Smink, and M. Mosgaard
4. Network for Sustainable Business Development. M. Damm

Tuesday June 9 – 14.30-16.00

Session 22 – Partnerships & Networks II

Room: Harlekin

Moderator: Martin Lehmann, Aalborg University, Denmark

1. A New Deal in the governance of climate change. C. Ponting
2. The importance of interpersonal relations in green networks – experiences from Denmark. M. Mosgaard, J. Holgaard, and A. Remmen

3. Multistakeholder partnerships for climate change: purpose, approach and substance. J. Pinkse and A. Kolk

Tuesday June 9 – 16.30-18.30

Session 34 – Partnerships & Networks III

Room: Harlekin

Moderator: Andrew Gouldson, University of Leeds, UK

1. Local Governance for Transition to Sustainable Society. T. Niren
2. The Neem Tree Industry – Empower the Poor with Green Technology in China. G. Kostka and J. Zhou
3. Networking and best practice of CP-projects in SMEs - Experiences from North Rhine-Westphalia, Germany. H. H. Sittel
4. ECOPROFIT® - Model of preventive environmental management and sustainable development for companies and communities. C. Krenn and J. Fresner
5. NH Pollution Prevention Internship Program: A partnership to support Energy Efficiency, Building Benchmarking, and Climate Change. I. H. Farag.

B HOSPITALITY, GREEN EVENT MANGEMENT AND TOURSIM

Chairs: Christian Pladerer, Department Resource management, Österreichisches Ökologie-Institut (Austrian Institute of Ecology); Niels Heine Kristensen, Danish Technical University

Wednesday June 10 – 09.00-11.00

Session 46 – Green Events, Tourism & Hospitality

Room: Harlekin

Moderator: Christian Pladerer

1. Green Events in Austria - from the European Football Championship EURO 2008 to the FIS Alpine World Ski Championships 2013 in Schladming. C. Pladerer
2. Sustainability Measurement for Sports and Cultural Events. C. Jones, A. Collins, and M. Munday
3. Carbon Offset Schemes for Aviation: Inconsistent Supply and Weak Demand, What Hope for the Future?. P. D. Hooper, H. Preston, and C. Thomas
4. Puttin' on the Ritz – but what are the emissions?. A. Rønning and A. Brekke
5. Actions at a hotel chain. I. Mattsson

Wednesday June 10 – 11.30-13.00

Session 58 - Large scale food service events as a strategy for sustainable food consumption

Room: Harlekin

Moderator: Bent Egberg Mikkelsen, Aalborg University

1. Large scale food service spaces as a messenger for sustainable food consumption strategies. B.E. Mikkelsen
2. Organic, local and vegetable based food sourcing as a sustainable strategy – what data are available? M.S. Jørgensen

3. Does festival musical encounters go hand in hand with organic style food service ? – casefindings from Øya music festival. G. Roos
4. Sustainable foods at the climate summit 2009 in Copenhagen – how can ambitions be met in real life foodservice? B. Brorson

C FOOTPRINTS ,LABELLING & PROCUREMENT

Chair: Per Christensen, Aalborg University

Tuesday June 9 – 11.30-13.00

Session 10 – Footprints, Labelling & Procurement

Room: Columbine

Moderator: Henrikke Baumann, Chalmers University of Technology, Energy & Environment, Sweden

1. How to achieve 80% reduction of computers climate impact”. H. Nordin
2. Carbon footprint labeling – how to have high data quality and to maximize utilization. J. H. Schmidt and B. P. Weidema
3. Carbon Footprint and Labelling of Dairy Products -Possibilities and difficulties. A. Flysjö, C. Cederberg, and J. Dalsgaard Johannesen

Tuesday June 9 – 14.30-16.00

Session 23 – Carbon Footprints

Room: Columbine

Moderator: Per Christensen, Aalborg University, Denmark

1. Progress Through Feedback – An Internet-based Personalised Monitoring System of Consumption Induced Greenhouse Gas Emissions with Rewards for the Goodies. K. Hyvönen, A. Perrels, A. Kallio, J. M. Katajajuuri, M. Melin, A. Nissinen, and M. Saastamoinen
2. CO2 calculator. (theoretical & practical)C. W. Nielsen and O. K. Nielsen
3. “The environment barometer with CO2-meter for entrepreneurs”. Adriaan van Engelen and Marc Herberigs, Stimular Foundation, Rotterdam, the Netherlands

D. INTEGRATED POLICIES & REGULATION

Tuesday June 9 – 16.30-18.30

Session 35 - Integrated Policies & Regulation

Room: Columbine

Chair: Niels Vestergaard, University of Southern Denmark

1. Under-estimating the importance of consumer behaviour – the UK WEEE obligations. C. Ponting and H. A. Nash
2. Integrated Product Policy in Portugal: the Start-IPP project. P. Trindade and A. P. Duarte
3. Ecological Modernization and Environmental Innovation in the Public Transport Industry in Hong Kong and California: What Role for Environmental Regulation?. C. K. J. Lam

4. Post-2012 and Sectoral Approach. Y. G. Ahn and Y. J. Chin
5. Accelerating the takeoff – Towards an Integrated eco-Innovation Policy. J. R. M. G. Drèze
6. From Cleaner Production to Carbon Management: Lessons from the implementation of cleaner production in China and its implications on the promotion of carbon management . S. Tsang

E. OPPORTUNITIES AND CHALLENGES FOR EMERGING ECONOMIES AND THE ROLE OF TECHNOLOGY TRANSFER

Wednesday June 10 – 11.30-13.00

Session 59 – Opportunities & Challenges for Emerging Economies and the Role of Technology Transfer

Room: Columbine

Chair: Carl J. Dalhammar, IIIIEE, Lund University

1. Study on the Coal Resources Utilization Policy in China: A case study of coal companies in China. J. Gao
2. CLIMATE Change: Strengthening Mitigation and Adaptation IN SOUTH Africa. K. O. Odeku
3. Diffusion of solar solution in developing countries – focus group study in Ghana. E. Ndzibah
4. Technology Transfer Projects and Institutional Development in Developing States: Success or Failure of Solar Home Systems in Rural Africa. M. Kovic

Wednesday June 10 – 14.30-15.30

Session 67 - Perspectives on Climate Action

Room: Radiosalen

Chairs: Niels Vestergaard, University of Southern Denmark, and Martin Lehmann, Aalborg University

Summing up from across conference themes of Governance & Climate Mitigation and Carbon Finance, Public Policies & Responsible Investment: How do we move forward? How do Business and Society combine in providing solutions? What are the perspectives for real, joint actions on climate change.



Theme 5: Carbon Finance, Public Policies & Responsible Investment

Theme Chairs:

Frede Hvelplund, AAU, Denmark

Martin Lehmann, AAU, Denmark

Programme

Theme 5: Carbon Finance, Public Policies & Responsible Investment is divided into the following sessions, which are elaborated below:

- A. STRATEGIES FOR CLIMATE ACTION: CORPORATE SOCIAL RESPONSIBILITY, BASE-OF-THE-PYRAMID AND RESPONSIBLE LENDING & INVESTMENT PRACTICES
- B. CLIMATE CHANGE, ECO-INNOVATION, INTERNATIONAL COMPETITIVENESS, AND GROWTH
- C. DRIVING FORWARD THE GREAT CONVERGENCE BETWEEN GREEN TECHNOLOGY AND BASE OF THE PYRAMID

A. STRATEGIES FOR CLIMATE ACTION: Corporate Social Responsibility, Base-of-the-Pyramid and Responsible Lending & Investment Practice

Chairs: Jacob Ravn, Aalborg University, Paul Shrivastava, Bucknell University and Julie LaFrance, International Finance Corporation

Tuesday June 9 – 11.30-13.00

Session 11 - Base-of-the-Pyramid I

Room: Harald Jensen

Moderator: Jakob Park

1. Understand social embeddedness as possible missing link for successful BoP product innovation? M. Danse
2. Innovating sustainable solutions for developing countries: can BOP strategies be the mean? J. Ravn
3. Innovating sustainable energy for the rural BOP: The case of mini-hydro power in rural Ethiopia. M. M. Halme and S. Lindeman

Tuesday June 9 – 14.30-16.00

Session 24 - Base-of-the-Pyramid II

Room: Harald Jensen

Moderator: Jakob Ravn

1. The Business of Water. The potential and limitations of Base of the Pyramid strategies for delivering a sustainable water supply in developing countries. L.

Koch

2. The Research on Microfinance Modes for BOP Market in Rural Areas of China. X. Shao, P. Su, and Y. Tong
3. Climate investments as a tool for community development. M. Paulsson and R. Karlsson

Tuesday June 9 – 16.30-18.30

Session 36 – Corporate Social Responsibility

Room: Harald Jensen

Moderator: Paul Shrivastava

1. An Emerging Crisis Society and Sustainable Enterprises. P. Shrivastava
2. The Role of TNCs in Technology Cooperation, C.F. Bach, J. H. Jensen and M. Söderberg
3. Business Strategies for Greenhouse Gas Reduction: An Eleven-Year Industry Analysis of Actions and Trends. P. Eagan, M. Finster, and R. Meissen
4. Empirical Analysis of Determinants of Adoption of Proactive Carbon Strategies in India. S. G. Sangle
5. Case Study of the Development of CSR in Danfoss. R. Ma, I. Toh, P. Christensen, and M. Lehmann

Wednesday June 10 – 09.00-11.00

Session 47 - Institutionalizing Climate Change Requirements in Lending & Investment Practices

Room: Harald Jensen

Chair/Moderator: Julie LaFrance, IFC; Matthew Haigh, Aarhus University

Panelists: James Gifford, UNPRI; Julie LaFrance, IFC; Victor Kjær, Danish Commerce & Company Agency; Asish Saha, National Institute of Bank Management, India

Overview: Public policy coupled with financial institution capacity may be the balance required to institutionalize climate change requirements in both commercial lending and institutional investment practices. Over the past several years, the perceived role of commercial banks in climate change mitigation has grown significantly in attention. The potential leverage effect for a lending institution and investors to influence the behavior of clients / investee companies has resulted in the notion that financial institutions can impose lending and investment conditions that will have a positive impact on reducing greenhouse gas emissions.

For commercial banks, a tremendous opportunity exists to manage the environmental risks associated with the business activities of portfolio clients (reducing portfolio footprint) as well as to structure financial products and steward portfolio clients to pursue carbon-related income streams. However, in practice many commercial banks are reluctant to systematically apply environmental considerations to lending operations.

This is a common reality amongst emerging market banks that fear loss of business to competing banks that have not applied the same environmentally stringent principles.

For institutional investors and fund managers, an opportunity exists to encourage investee companies to improve their management of issues such as climate change. There has been a multitude of investor initiatives emerge in recent years leveraging the power of large investors to seek improvements in corporate behavior.

A new approach currently being piloted combines strengthening institutional capacity of commercial banks and investors to the benefits of integrating environmental considerations into lending and investment with direct engagement with regulators to develop public policy to support the application of environmental guidelines to lending and investment. Time will tell whether this approach may strike the balance required to move the commercial banks and investors in emerging markets to action.

The model will be presented from both the commercial banking and investor perspectives. IFC's experience piloting public policy interventions with central banks in Pakistan, India, China, the Middle East North Africa region (MENA) and Brazil as well as UNPRI's experiences engaging regulators to develop voluntary frameworks for institutional investors. Experiences of FMO, NIBM and the Danish Commerce and Company Agency will enhance the discussion and offer complimentary perspectives. This cross-section of public policy for commercial lending and investors will lend itself to a participatory discussion from the audience.

This workshop discussion will focus on:

- Public Policy – Voluntary frameworks vs. regulated directives. Does the approach differ from country to country based on political/market orientation?
- Alternatives for tapping the pipeline of potential carbon-related projects in a bank's portfolio.
- Win-Win-Win – Improved environmental risk management, new business generation and positive contribution to climate change objectives.
- Market mechanisms for incenting banks to develop innovative financial products that mitigate climate change.

Abstracts:

1. The science of climate discourse. M. Haigh and N. Taylor

B. CLIMATE CHANGE, ECO-INNOVATION INTERNATIONAL COMPETITIVENESS AND GROWTH

Chair: Carlos Montalvo, KvL, TNO

Overview: This topic will deal with the technologies and systems needed to respond to the challenge of climate change and competitiveness. Our feeling that although there is a great deal of knowledge about a range of potential responses to the challenge of climate change there has been little exploration of what type of economic impact this range of knowledge once applied might have in the economy and growth. Furthermore, there is little exploration of the challenges to and the rules for international competition, demand conditions, supporting industries, and the structure of this 'new' industry will bring to the equation for the full deployment of services, technologies and systems oriented to mitigate climate change effects.

The issue here is that, contrary to past decades, the engagement on environmental protection (now via innovation) is seen as source of competitive advantage. Many agree on this, our feeling on this is that there is still little insight within the epistemic communities that will attend the conference on what international competitiveness entails. The "solutions" proposed after a preparatory niche development in which many climate change technologies are now, they must compete in the open market with "solutions" proposed elsewhere. For some years colleagues working within the innovation research have come closer to the environmental realm, now this is a common place. This is not the case of Industrial Organization in particular communities dealing with issues of international competitiveness.

We will see this topic coming together in the next years as governments see in the

environmental challenges the possibility of creating large economic multipliers. The idea is to bring together people from the innovation (Schumpeterians), openness-competitiveness (new trade) and environmental studies traditions. The aim is to bring these issues to the attention of the communities attending the conference and draw a research agenda that addresses a number of open questions regarding the inputs, throughputs and outputs of international competitiveness in relation climate change, innovation and the environment in general.

Tuesday June 9 – 11.30-13.00

Session 12 - Clean Tech Development & Green Entrepreneurs

Room: Hubertus

Moderator: Kai Hockerts, CBS

1. Greens rush in: CleanTech venture capital investments - prospects or hype? J. L. Christensen
2. Are Cleantech Companies Special? O. Hjelm
3. Business Models for Sustainability—Innovative Regional Business Models as Subject and Trigger of a Sustainable Change in the Energy Industry. F. Luedeke-Freund
4. Potentials of Using Solvent-free Industrial Cleaning in Swedish Manufacturing Industry. N. Svensson, E. Sundin, M. Lindahl, M. Björkman, and P. Hammarstedt

Tuesday June 9 – 14.30-16.00

Session 25 - Clean Development Mechanism & Joint Implementation

Room: Hubertus

Moderator: Frede Hvelplund

1. Joint Action on Climate Change: Is Africa Part of the Problem or the Solution. J. Katima and C. Pritchard
2. CDM: A Mechanism to Promote Solid Waste Management Efficiency and GHG Reduction in Thailand. C. Pharino and B. Jaranasaksakul

Tuesday June 9 – 16.30-18.30

Session 37 - Panel Debate

Room: Hubertus

Moderator: Dan Stromberg, University of Gothenburg

Panelists: Tomoo Machiba, OECD Directorate for Science, Technology and Industry (DSTI), OECD; Iulia Degeratu, Public Policy Unit, Ministry of Environment, Romania; Fernando Diaz, Innovation and the Environment, TNO

Wednesday June 10 – 14.30-15.30

Session 67 - Perspectives on Climate Action

Room: Radiosalen

Summing up from across conference themes of Governance & Climate Mitigation and Carbon Finance, Public Policies & Responsible Investment: How do we move forward? How do Business and Society combine in providing solutions? What are the perspectives for real, joint actions on climate change.

C. DRIVING FORWARD THE GREAT CONVERGENCE BETWEEN GREEN TECHNOLOGY AND BASE OF THE PYRAMID

Chairs: Jacob Ravn, Aalborg University; Louise Koch, SPIRE Centre for Participatory

Innovation, University of Southern Denmark
Moderator: Minna Halme, Helsinki School of Economics.

Wednesday June 10 – 09.00-11.00

Session 48 – Opening & setting the stage

Room: Hubertus

Moderator: Minna Halme, Helsinki School of Economics

1. Joint action on climate change in the perspective of BOP strategies. P. Kandachar
2. Recommendations from Cornell Global Forum on Sustainable Enterprise- L. Tejlgaard
3. Panel Debate: What are the challenges and opportunities from Cornell Global Forum on Sustainable Enterprise seen in the light of Joint Actions on Climate Change?
 - Business representative (MNC): Wolfgang Gregor, Osram
 - Business representative (SME): Palle Hannemann, Hannemann Engineering
 - NGO sector: Rolf Hernoe, Care Denmark
 - Researcher: Professor Prabhu Kandachar, Delft University

Wednesday June 10 – 11.30-13.00

Sessions 60-61 - Methods and Models for Action

Choose one of the workshops to discuss concrete methods and models for action:

60. BOP Business model, moderated by Lars Tejlgaard, Confederation of Danish Industry based on presentation by Martin Klein, Business for Development (Room: Harald Jensen)
61. BOP User driven innovation, moderated by Ellen Christiansen, SPIRE South Denmark University, based on presentation by Louise Koch from BOP Innovation (Room: Hubertus)

The workshops will be based on a short introduction to the theme of the workshop so as to provide a common platform for the discussions. Questions / cases etc. will be provided based on the comments received from the registration to the conference.

Wednesday June 10 – 14.30-15.30

Session 68 - Plenary session

Room: Latinersalen

Moderator: Minna Halme, Helsinki School of Economics

- Presentation of key results and questions from workshops
- Discussion and recommendations for future activities



Theme 6: Learning & Climate Change

Theme Chairs:

Jette Holgaard, AAU, Denmark

David Christensen, AAU, Denmark

Programme

Theme 6: Learning & Climate Change is divided into the following sessions, which are elaborated below:

- A. Perspectives on Learning for Climate Change
- B. Citizenship & Climate Change Awareness
- C. World Café: Creative dialogue on Learning and Climate Change
- D. Sustainable Universities
- E. Environmental Campaigns
- F. Building Green Minds: Exploring Opportunities for Cross-Faculty Education for Climate Change and Sustainable Development

Tuesday June 9 – 11.30-13.00

A. Learning for climate change: Introductory panel discussion

Session 13

Room: Kræmmerstuen

Chair: Jette Holgaard, AAU, Denmark

Invited speaker: Andrew Jamison "Learning about Climate Change: Contending modes of knowledge making"

Tuesday June 9 – 14.30-16.00

B. Citizenship & Climate Change Awareness

Session 26

Room: Kræmmerstuen

Chair: Andrew Jamison, Aalborg University, Denmark

1. Promoting Engagement in Climate Action: Developing Global Citizenship. T. Heller and D. Kaminstein
2. Socio-Economic Empowerment : Expanded Public Works Programme : Johannesburg City Parks Case Study 2004-2008. W. Nel
3. Involving younger generation in the dialogue on Sustainable Development:

Vinyl 2010 Essay Competitions and the Vinylgame. C. D. Welton and E. A. Lo Buglio

4. Fighting Global Warming in Peru Diego E. Shoobridge
5. Engaging Local Stakeholders in Flood Management Towards Living with Flood in the Mekong Delta, Vietnam. B.T. Sinh

Tuesday June 9 – 16.30-18.30

C. World Café: Creative dialogue on Learning and Climate Change

Session 38

Room: Kræmmerstuen

Chair: Hanno Langfelder, Technische Universität München, Germany

Overview: Might we ask Powerful Questions that release the co-creativity of the conference participants so that in a “climate” of concern, they can express both their concerns and practical solutions for “climate” change? When we “ask” powerful questions and then get out of the way, people come alive. They reflect, they wonder, they intuit, they infer and in dialogue they discover. We propose to use a creative dialogue format as an opening, general session for the domain Learning and Climate Change. This provides a platform for meeting and engaging with similar-minded participants. An atmosphere of co-creativity, networking and productive exchange develops at an early stage of the conference – low in carbon but high in creative human energy! We aim to weave together the different themes of the domain, such climate awareness, learning and teaching climate change and produce further dialogue and exchange. Possible powerful questions for session: What success stories are in your mind when you think of Learning and Climate Change? When have you experienced deep learning? And how can we connect this with climate change? How can learning experiences contribute to actions on climate protection?

D. Sustainable Universities

Wednesday June 10 – 09.00-10.00

Session 49 - Sustainable Universities

Room: Kræmmerstuen

Chair: Mona Dahms, Aalborg University

1. Environmental education and pro-environmental consumer behaviour – Results of a university survey. Á. Zsóka, Z.M. Szerényi and A. Széchy
2. Universities and transition to sustainable development: lessons from the Costa Rican case. J. Orozco
3. How to rank universities from sustainability perspective? R. Lukman, D. Krajnc and P. Glavic

Wednesday June 10 – 10.00-11.00

Session 50 - Curriculum Development on Climate & Sustainability

Room: Kræmmerstuen

Chair: Johan Woudstra, The Hague University Academy of Engineering

1. Education in Environmental Sustainable Architecture for the Future? – for a Joint Climate Action. M.A. Knudstrup, K. Eriksen and M.D. Petersen
2. Auditing Cardiff University’s curricula using the STAUNCH© system for

sustainable events. R. Lozano (C. Ponting)

3. Integrating Sustainability in Engineering Identity. D. Christensen, J. E. Holgaard, S. Løkke and A. Kolmos

Wednesday June 10 – 11.30-13.00

E. Environmental Campaigns

Session 62

Room: Kræmmerstuen

Chair: Gertjan de Werk

1. Simple and painless? The limitations of spillover in environmental campaigning. J. Thøgersen and T. Crompton
2. Learning through climate awareness raising campaigns: from strategy skepticism to action competence A. Kenis and E. Mathijs
3. Environmental Awareness through Performative Urban Media. B.S. Thomsen and E.S. Poulsen
4. Climate Master Plan - Screening for flood prone areas in urban areas and the synergy and con-flicts in measures for climate change mitigation and adaptation. A.B. Hasling

Wednesday June 10 – 14.30-15.30

F. Workshop: Building Green Minds: Exploring Opportunities for Cross-Faculty Education for Climate Change and Sustainable Development

Session 69

Room: Kræmmerstuen

Chair: Søren Løkke, AAU, Denmark; David Christensen, AAU, Denmark

Overview: Climate change challenges universities to implement scale-appropriate responses, pertinent due to wider effects stemming from the full range of university activities. Focusing on education specifically and addressing this in a manner that cuts across faculty and disciplinary distinctions, this session aims at knowledge exchange on experiences for facilitating the integration of climate change and sustainability, and generating solutions. It is prompted by the lifting-off of environmental initiatives at Aalborg University which includes both campus greening activities and university-wide enhancing of sustainable education. The session will be opened by experts and practitioners in the field.

1. Experiences from a reform project on education for sustainable development at Chalmers University of Technology. U. Lundqvist

Finding your session

