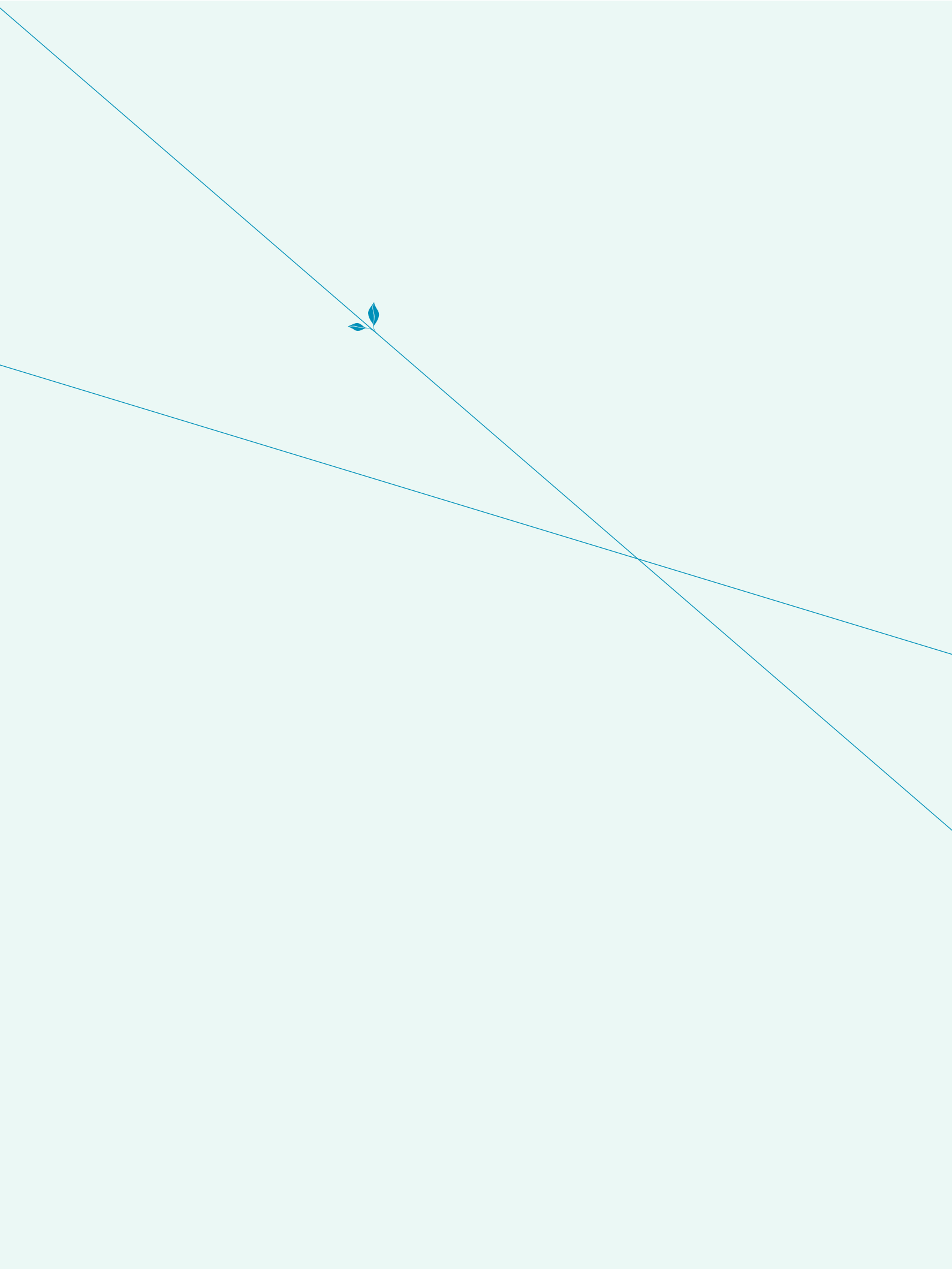


Lund University

**iiiee**

# ANNUAL REPORT 2010

THE INTERNATIONAL INSTITUTE FOR INDUSTRIAL ENVIRONMENTAL ECONOMICS



# The Year 2010 – An Overview

The IIIEE is an international institute within Lund University bridging academia to practice to meet sustainability challenges. Since its foundation in 1994, the IIIEE has engaged in environmental and climate related education and research. The Institute now operates two international Master's programmes, independent courses, a wide range of pioneering research projects and numerous outreach activities. Its activities are truly *multi-disciplinary, international and applied*. Researchers and teachers have backgrounds in natural sciences, technology, law, economics and other social sciences, and the IIIEE cooperates closely in education and research with other departments at Lund University and with other universities worldwide. To broaden our knowledge base, we also cooperate closely with society in a number of fields. In 2010, there were representatives from 17 countries in the research staff at the Institute; diversity was further enriched by our international Master's students.

The Institute "tagline" is **IIIIEE – Advancing Sustainable Solutions**. While the debate in society to a large extent is focused on environmental and climate related problems, the Institute emphasizes solutions and pathways towards achieving them. We explore and advance knowledge in the design, application, and evaluation of strategies, policies, and tools for a transition towards sustainable solutions. The educational programmes provide intensive learning opportunities and prepare our students for a broad range of careers.

In 2010, the activities at the Institute have been numerous and successful. Several projects and publications were completed; about 20 new research and educational contracts were signed, and new projects were initiated. Moreover, a suite of workshops and collaborative events were coordinated and gathered various partners from society. The year also saw the EMP and MESPOM programmes deliver 49 MSc graduates, and interaction with other educational programmes at LU was expanded. The joy and enthusiasm expressed by our students, not least as demonstrated in a sparkling performance at the graduation ceremony, fill the Institute with hope and allow us to look to the future with confidence.

International collaboration was intensive in 2010. Several guest professors took part in our educational

activities as well as in our research, and the IIIEE further enriched long-term collaborations with partners in countries including Argentina, Belarus, China, India, Jordan, Russia, Thailand, and Ukraine. In 2010, we succeeded in securing financing for further development of the *Young Masters Programme for Sustainable Development*; to date this programme has reached more than 13 000 youths from 113 countries. Also of note, the distance course *Energy for Sustainable Development* was finalized after delivering training to more than 190 participants from 73 countries.



Fotograf: Mikael Risedal

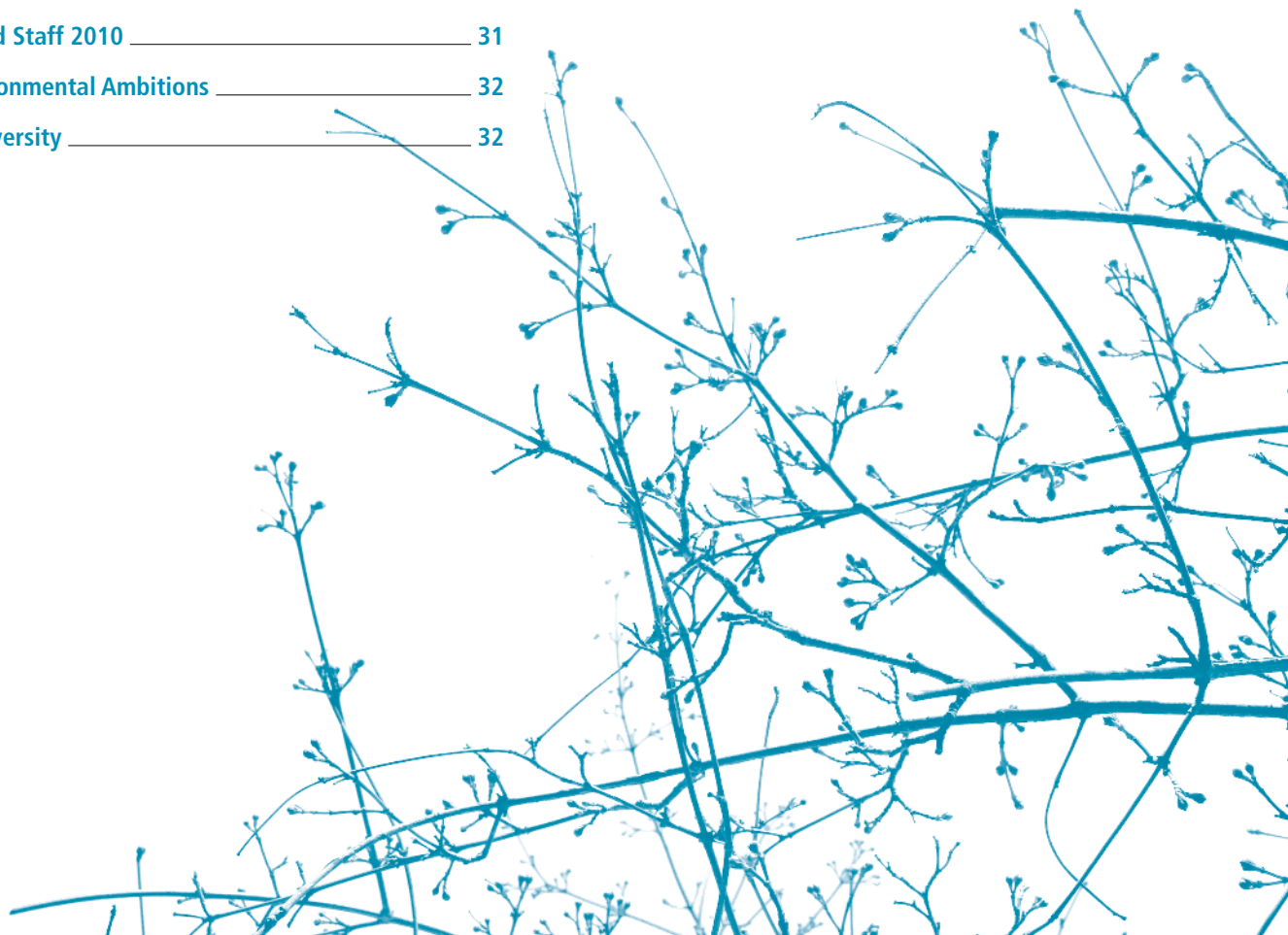
As Director, I wish to thank all the research councils, companies and organisations that have supported the challenging and important activities at the IIIIEE!



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# Major Events 2010

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## **FEBRUARY**

### **RESEARCH FUNDING – SUSTAINABLE SHOP**

Researchers from IIIEE and the Research Policy Institute at Lund University received 5.4 million SEK funding from FORMAS to conduct research on the role of retailers in supporting green and ethical markets.

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## **MARCH**

### **SEMINAR – EXTENDED PRODUCER RESPONSIBILITY**

IIIIEE organised a seminar in Minsk (Belarus) in cooperation with the Ministry of Environment and Natural Resources and with participation of Swedish experts from industry. The seminar focused on waste management and recycling, with particular emphasis on Extended Producer Responsibility.

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## **APRIL**

### **IIIIEE HOSTS ENERGY FOR ECO-EFFICIENCY IN POLAND CONFERENCE**

The Swedish-Polish Sustainable Energy Platform at IIIIEE hosted the conference Energy for Eco-Efficiency in Poland – Business Opportunities for Swedish Companies in Lund (see further information in this report).

### **RESEARCH FUNDING – THE EMERGING BIO-ECONOMY**

Dr. Kes McCormick was awarded 4 years (2010–2013) funding from the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS) and was appointed an Assistant Professor to undertake research on “The emerging bio-economy: Investigating the role of communication and stakeholder involvement”.

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## **MAY**

### **VISIT BY DR. MOHAMMAD AL SHAIKH**

Dr. Mohammad Al Shaikh, founder of the Al Riyadh Development Authority and former Minister of Urban Planning and Rural Development in Saudi Arabia, paid a visit to IIIIEE. A lively discussion took place around the recent introduction of fees for international students and ways to support students from the Middle East region that seek to join IIIIEE MSc programmes.

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## **JUNE**

### **GRADUATION BUDAPEST**

Batch 15–4 of the MESPOM programme, an Erasmus Mundus MSc programme coordinated by the IIIIEE, celebrated the completion of their 2-year study journey. Of the 35 new graduates, 17 of them spent time in Lund. Faculties from all the four participating universities – the IIIIEE, the University of Manchester (UK), Central European University (CEU), Budapest and the University of the Aegean (Lesvos, Greece), joined the celebration.

### **RESEARCH FUNDING – ENERGY EFFICIENT RETROFIT MEASURES IN EXISTING BUILDINGS**

IIIIEE received 1.2 MSEK to support the project “Policy instruments for innovation of energy efficient retrofit measures in existing buildings”. The research programme is part of a European cooperation, with the overall objective to identify cost effective energy-related retrofit strategies.

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## **JULY**

### **INTEGRATING SUSTAINABILITY IN URBAN PLANNING IN SHANGHAI**

IIIIEE co-led a course at Fudan University where students from Sweden and students from Fudan and Tongji Universities collaborated to develop solutions for re-development of a block in central Shanghai. In July the projects were presented at a high-level seminar on the Swedish Pavilion at the Shanghai World Expo.

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## **AUGUST**

### **COOPERATION – UNIVERSIDAD CATÓLICA ARGENTINA**

The IIIIEE concluded its seventh year of cooperation with Universidad Católica Argentina (UCA) in Buenos Aires in the framework of the Linneaus-Palme Programme. As part of the cooperation, the Institute hosted Professor Eduardo Pigretti as guest lecturer for three weeks in February, and two students from Buenos Aires joined the IIIIEE Master’s programme during the spring semester.

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## **SEPTEMBER**

### **CONGRATULATIONS BATCH 15**

The IIIIEE’s 15<sup>th</sup> Batch graduated on 24 September. The Graduation Ceremony was held in the main Building of

Lund University and the coveted annual “best teacher award” went to Thomas Lindhqvist. The speech to welcome the graduates and guests was held by Professor Ingalill Rahm Hallberg, Assistant Vice-Chancellor, Lund University and Chair of the IIIEE Board. Speeches were also held by Professor Lena Neij, Director of the IIIEE, and Dr. Anders H. Nordström, Group Sustainability Advisor, ABB.

**RESEARCH FUNDING – SOLAR ENERGY IN URBAN PLANNING**  
Lund University (IIIIEE and LTH), Malmö University and the Swedish Agricultural University (SLU) at Alnarp received 17 million SEK in funding for research towards coordinated urban planning. Funding was awarded by a combined consortium of the Research Foundation FORMAS, the Swedish Energy Agency, the Swedish Environmental Protection Agency, the Swedish National Heritage Board, and the Swedish Transport Administration.

**SIDA FUNDING – YOUNG MASTERS PROGRAMME (YMP)**  
A 10 MSEK grant for the period 2010–2012 was awarded the IIIIEE to cover costs for a significant expansion and wider distribution of the Young Masters Programme (YMP). As a part of the SIDA assessment preceding the decision, four independent pedagogical expert organizations, including Cambridge Education, evaluated the application.

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## OCTOBER

### WORLD EXPO 2010 IN SHANGHAI

IIIIEE participated in the Southern Swedish delegation to the World Expo 2010 in Shanghai. Several partners from the region contributed to the event – Lund University, Malmö University, The Swedish University of Agricultural Sciences (SLU), City of Malmö, City of Lund, City of Helsingborg and a suite of regional companies.

### SUSTAINABLE SHIP DISMANTLING AND RECYCLING, SEMINAR AT IIIIEE

A seminar regarding Sustainable Ship Dismantling and Recycling in the broader perspective of sustainability, was held at the IIIIEE. Among other things, the seminar was convened to discuss and to define the participants’ tentative future engagement and ambitions to adopt special national and international roles.

### IIIIEE RESEARCHERS CONTRIBUTE TO NEW BOOK ON TRADE AND ENVIRONMENT

Carl Dalhammar and Chris van Rossem contributed a chapter exploring the relationship between product

standards and trade in the book *International Trade and Environmental Justice* (Published by Nova Publishers, edited by Alf Hornborg and Andrew Jorgensen). The chapter is entitled “Life cycle thinking, product standards and trade: can we find a balance between different policy objectives?”

### IIIIEE RESEARCHER LUIS MUNDACA TO CONTRIBUTE TO THE NEXT IPCC REPORT

Luis Mundaca was selected by the Intergovernmental Panel on Climate Change (IPCC) Bureau as a Lead Author for the IPCC 5th Assessment Report on Climate Change Mitigation (Working Group III). Luis Mundaca will be part of the scientific team in charge of Social, Economic and Ethical Concepts and Methods.

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## NOVEMBER

### WORKSHOP ON ECODESIGN AND RESOURCE EFFICIENCY

The Nordic Council of Ministers provided funds for Aalborg University and IIIIEE to host a conference on Ecodesign and resource efficiency. In connection with the conference, IIIIEE/Aalborg University also wrote three policy briefs outlining possibilities to improve the process of setting ecodesign requirements. The workshop proceedings can be found at: [www.resourceefficiency.aau.dk/](http://www.resourceefficiency.aau.dk/)

### PROFESSOR THOMAS B JOHANSSON RECOGNIZED BY THE EUROPEAN ASSOCIATION FOR RENEWABLE ENERGY

Nine winners from six countries received this year’s European Solar Prize. Professor Thomas B. Johansson (IIIIEE, Lund University) received the special achievement prize for his distinguished contributions to the field of energy systems analysis. The award ceremony was held at the Berlin branch of KfW Bankengruppe.

### RESEARCH FUNDING – A COMPETITIVE GREEN ENERGY ECONOMY

IIIIEE received 9 MSEK for the project “Policy intervention for a competitive green energy economy”. The objective of the proposed project is to evaluate the performance of energy policy instruments targeting clean energy technology change. A competitive green energy based economy will delineate the main framework for such policy assessment.

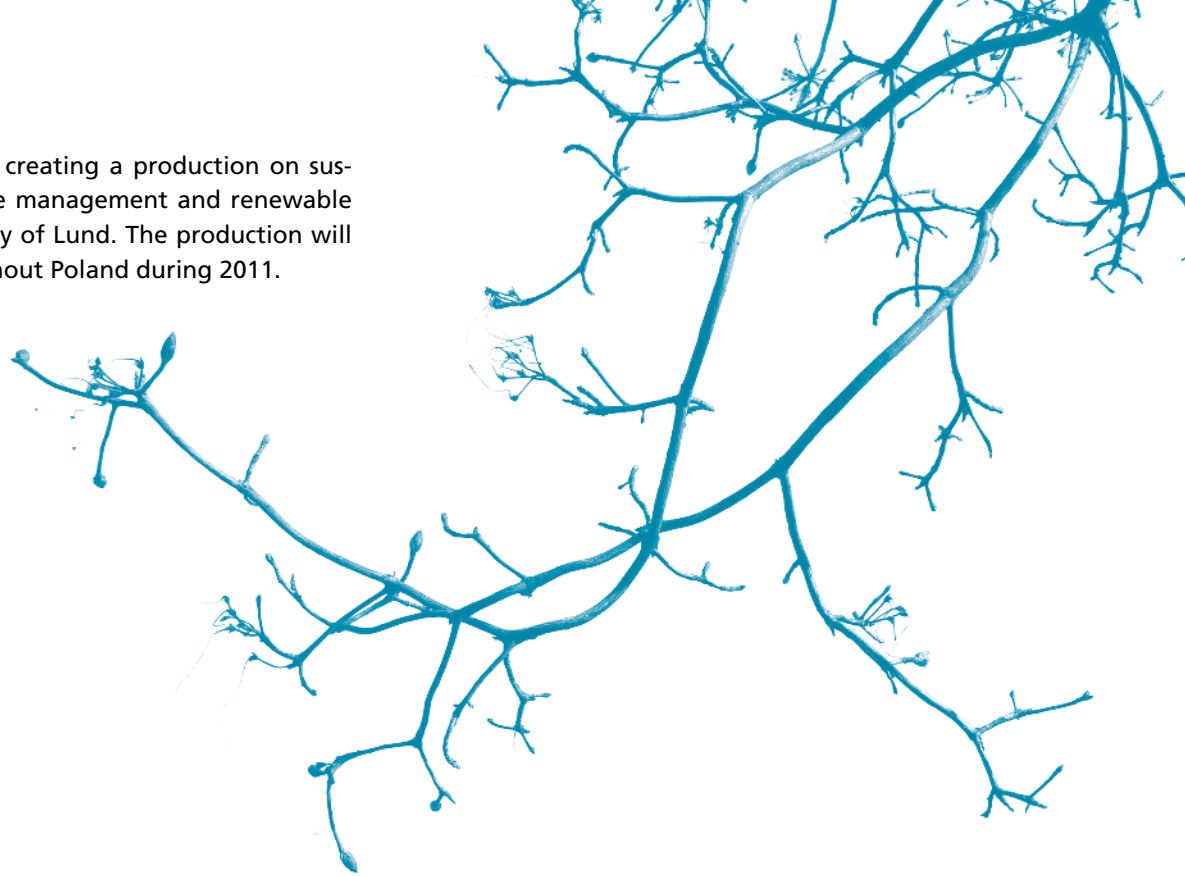
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## DECEMBER

### SUSTAINABLE CITY DEVELOPMENT – LUND AS A MODEL

The Swedish-Polish Sustainable Energy Platform hosted a film team of four from Poland’s national television

service. The group was creating a production on sustainable mobility, waste management and renewable energy supply in the city of Lund. The production will be broadcasted throughout Poland during 2011.



## ENERGY FOR SUSTAINABLE DEVELOPMENT

On 21 September, the IIIIE held a seminar to thank Professor Thomas B. Johansson for his pioneering contribution supporting Energy for Sustainable Development. A resumé of the topic was presented by Professor José Goldemberg and was followed by a panel discussion. The panel included Professor José Goldemberg; Tomas Käberger, Director General, Swedish Energy Agency; Peter Hennicke, Professor, Wuppertal Institute for Climate, Environment and Energy; Anders Wijkman, Vice Chairman, Tällberg Foundation; Bo Normark, CEO, Power Circle; Annica Kronsell, Associate Professor, Lund University; and Karin Ericsson, Assistant Professor, Lund University. At the close of the seminar, the Vice-Chancellor of Lund University, Per Eriksson, and the Director of IIIIE, Lena Neij, thanked Thomas B. Johansson for his achievements at Lund University and the Institute.



Thomas B Johansson

# New Professor and Licentiate

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## Professor – Oksana Mont

In December 2010 Oksana Mont was promoted to Professor in Sustainable Consumption and Production. This Professorship will strengthen the IIIIEE's research on sustainable modes of living, producing and using products and services. It will also aid expansion into new areas such as sustainable lifestyles, social innovation and entrepreneurship and transition to a sustainable society.



Transition to a sustainable society requires radical transformation of consumption levels and patterns that can only be

achieved if various stakeholders are committed to the process – the so-called triangle of change of governments, businesses and civil society. Therefore, specific focus of sustainable consumption and production research will be on engaging and collaborating with:

- *policy-makers* on developing frameworks for sustainable society and facilitating open and continuous dialogue with all stakeholders,
- *businesses* on devising new business models for sustainability that enable sustainable lifestyles through technical, entrepreneurial and social innovation, and
- *civil society and non-governmental organizations* on encouraging and engaging people in more sustainable modes for living.

## Licentiate – Martin Kurdve

On 15 January Martin Kurdve presented his licentiate thesis on liquid management services in the metal-working industry. Dr Mattias Lindahl from Linköping University acted as opponent. Martin, who for many years worked at Volvo, has been studying different models for the management of various (often hazardous) liquids in production chains. Volvo has been employing so called chemical management services (CMS), as well as, traditional, in-house, fluid management. CMS means that the suppliers of the chemicals (fluids) are also involved in the management and maintenance of the substances in the use phase – a form of outsourcing for liquids management. The environmental

interest for such systems lies in the potential to minimise waste. Earlier research had mainly studied these systems as business cases for suppliers, while this research had the customer in focus. The study examined several environmentally relevant parameters, including water use, release of volatile organic compounds, and generation of hazardous wastes. The most useful data were related to water use. It was shown that the process water use had been improved almost a factor two in facilities applying CMS. Based on the results of the research, Martin developed a set of management guidelines for practitioners working with liquids management or buying such services.

# Research Activities

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Research at the IIIIE focuses on ways to advance Sustainable Solutions through design, application and evaluation of instruments and strategies from governments, businesses, and other relevant stakeholders. In recent years, research also seeks better understanding of the power of business and social innovation in addressing sustainability challenges.

Specific **research areas** on policy and strategies for sustainable solutions include topics addressing clean products and production systems, consumption, waste management, renewable energy, energy efficiency, climate change, material flows, industrial ecology, the built environment, city development, tourism, mobility and information technology. Research is organized to encourage crosscutting actions and to allow for activities that address topical challenges and incorporate new approaches. Many researchers are active in more than one of the research areas and several of the research projects can be attributed to more than one of the areas.

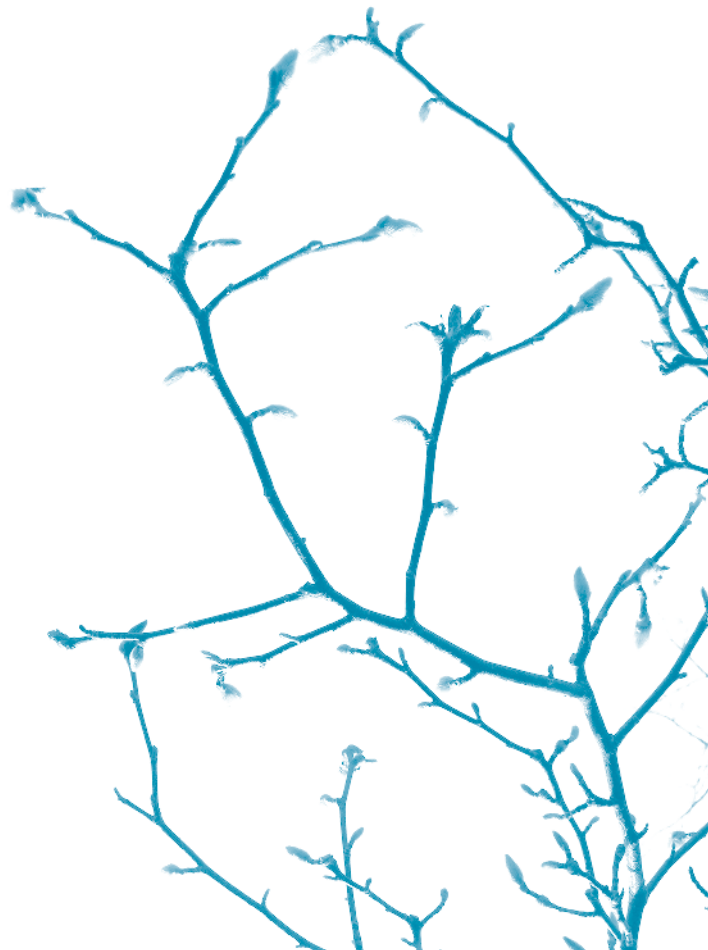
The research is **multidisciplinary** and incorporates researchers with backgrounds in engineering, economics, law, political science and natural sciences. This is strength when focusing on policies and strategies for sustainable solutions – a highly multidisciplinary research field. The Institute also makes use of these different knowledge backgrounds in formulating research projects that need multi- and interdisciplinary capacities.

Research at IIIIE is **applied** and aims to support decision makers at different levels and sectors. Therefore, it commonly involves collaboration with actors from government, industry or other stakeholders in society. The relevance of applied research is defined by the external actors, and the IIIIE has been highly successful in attracting support from a diverse group of societal actors, including international organisations, national governments, and ministries, national, regional and local authorities, industries and NGOs.

Research at IIIIE is developed in close **cooperation** with international researchers from different disciplines and universities all over the world to advance innovative interdisciplinary work. Moreover, IIIIE often cooperates with practitioners from different countries. IIIIE research is developed through interaction between senior researchers, PhD students and MSc students, which also facilitates possibilities to explore new innovative research fields. Each year, some 30 MSc students

spend 4 months each on writing Master's theses – often in cutting edge areas. This delivers a research effort of approximately 10 person-years per MSc batch. The theses are designed in close cooperation with IIIIE staff and external partners in industry, government, research institutes, and other organisations.

Another IIIIE strength is the number of **international** employees stimulating international research. Cultural diversity is promoted in research and teaching activities. In 2010 representatives from 17 countries worked full- or part-time at the Institute. The international diversity is further enhanced by the MSc students and various international cooperative projects. The IIIIE publishes papers and reports in English, as well as in Swedish, Russian, Spanish, French, Japanese and Chinese.



# Research Projects at IIIEE – a Selection

## **THE KNOWLEDGE-BASED BIO-ECONOMY (KBBE)**

KBBE represents a significant shift in socio-economic, agricultural, energy and technical systems. The concept of the KBBE can be understood as an economy where the basic building blocks for materials, chemicals and energy are derived from renewable biological resources, such as plant and animal sources. This type of economy can meet the requirements of sustainable development from environmental, social and economic perspectives. The bio-economy is being made possible by the recent surge in scientific knowledge and technical competencies to harness biological processes. An EU strategy for the KBBE will be released in 2011.

Currently, the IIIEE (through Kes McCormick) is funded by the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS) to conduct research on “The emerging bio-economy in the EU: Investigating the role of communication and stakeholder involvement” for the period 2010–2013. See <http://bio-literacy.blogspot.com/> for updates on these research activities, discussions and outputs. The IIIEE is also actively involved in LU Biofuels, a multi-disciplinary research platform at Lund University that brings together researchers from across faculties, departments and centres working on biofuels, bioenergy and the bio-economy.

See [www.lubiofuels.org](http://www.lubiofuels.org) for further information on LU Biofuels.

CONTACTS: Kes McCormick

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## **FURTHERING MARKETS OF GREEN AND ETHICAL PRODUCTS: THE ROLE OF RETAILERS (HÅLLBAR BUTIK)**

Business has a key role to play in the transition towards sustainable consumption and production by providing goods and services that are profitable and environmentally and socially sustainable. Retailers have a “gatekeeper” role in many product chains, connecting suppliers with consumers. On the one hand, being in direct contact with consumers, they exert significant influence on what products consumers want to buy, and how they use and dispose them. On the other hand, they reach out to suppliers worldwide thus having the opportunity to encourage green and fair production practices. It is therefore important to increase awareness and knowledge of retailers for how to work with these challenging tasks in economically efficient and

environmentally and socially sustainable way. With the help of our areas of expertise in business administration, product policy, consumer research and innovation and product design IIIEE researchers are to study front-runners among European and Swedish food retailers, to closely collaborate with one Swedish food retailer at concern and local level, and to further their work towards sustainability. The work is funded by the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (FORMAS).

The main goal of the project is to analyze how individual food retailers can contribute to creating more sustainable markets. It is expected that the project will contribute to the theoretical development in the field and to practical application at the store level.

CONTACTS: Oksana Mont, Beatrice Kogg, Mårten Karlsson

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## **SPREAD: SOCIAL PLATFORM IDENTIFYING RESEARCH AND POLICY NEEDS FOR SUSTAINABLE LIFESTYLES (SPREAD – SUSTAINABLE LIFESTYLES 2050)**

SPREAD is a 2 year FP 7 financed EU project on sustainable lifestyles conducted in cooperation with 9 European partners. The concept of sustainable lifestyles refers to patterns of behaviour shaped by personal and social interactions and conditioned by environmental and socio-economic contexts that aim at improving well-being and health of present and future generations. Sustainable lifestyles embrace economic, social, technical, cultural, legal and environmental aspects at individual, local, national, EU and international levels. They also relate to social innovation, given the crucial importance of bottom-up inputs and creativity to change behaviour. Sustainable lifestyles are a relatively new idea in the sustainable consumption and production domain and a comprehensive research agenda and policy strategy for its promotion are missing in the EU.

The SPREAD project aims to fill this gap by consolidating existing body of knowledge from research projects and experiences of stakeholder networks, comprising researchers, health and education experts, industry, services and civil society representatives. It aims to create scenarios of sustainable lifestyles in 2050 through a social platform, focusing on sustainable living, mov-

ing, consuming and healthy life and by setting up a peoples' forum and an online platform in order to host an ongoing dialogue with the public. Using a back-casting approach, a roadmap with a timeline on how to achieve sustainable lifestyles will be developed. To support European policy makers in their work on sustainable lifestyles, the project will develop a research agenda for the future.

CONTACTS: Oksana Mont

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### **INNOVATION PROCUREMENT – AN IMPORTANT STEP TOWARDS A SUSTAINABLE SOCIETY?**

The so-called "Swedish paradox" has received a lot of attention in discussions on innovation policy in Sweden. The "paradox" in question is the claim by several academics and practitioners that the resources invested in R&D and innovation activities on the input side, should lead to more product and process innovations on the output side. It is often claimed that more focus should be put on the demand side in Swedish innovation policy. New knowledge is not automatically transformed into innovations, as new offerings are costly to develop. However in many situations where there is a manifest demand for new solutions, innovations tend to emerge. There is currently agreement among many actors that Swedish authorities, through more focus on functions, and the allowance of new solutions in the procurement process, will facilitate new innovative solutions.

There is a quite a lot of experience with technology procurement among several Swedish authorities, not least at the Energy Agency which has run a number of projects dealing with a large number of product groups, such as refrigerators, windows, and heat pumps. Innovation triggering procurement and technology competitions has also been used when designing and building state-of-the-art city districts such as Hammarby Sjöstad in Stockholm.

In collaboration with Teknikföretagen, the IIIIEE is examining the potential to work with innovation procurement in three areas: sustainable transport, smart grids, and sustainable cities. The project is a pre-study, and the main objective is to derive insights into requirements for successful procurement of innovations. This is achieved through literature studies and interviews with procurers and people in industry. 1–2 Delphi panels will also be performed. The study will be completed during 2011.

CONTACTS: Carl Dalhammar

### **ECO-MOBILITY – A CO-OPERATION PROJECT ON SUSTAINABLE TRANSPORTS IN THE ØRESUND REGION**

The IIIIEE is a partner in the Eco-Mobility project together with several universities, regional authorities, transport agencies, and research institutes on both sides of Öresund. The aim of this broad project is to contribute to a change towards more sustainable transport systems for goods and people, including distribution systems, logistic hubs, bio-fuels, and more.

The Institute contributes to work packages on Sustainable Leisure Travel and to education programmes on Sustainable transport. It is found that leisure travels make substantial contributions to the greenhouse gas emissions and may make up more than 10 per cent of per capita contributions to the CO<sub>2</sub> emissions. Thus, it is important to understand leisure travel habits and behaviour and environmental considerations when choosing destinations and travel modes if we wish to provide new services adapted to a sustainable transport system.

In the context of the project activities, the Institute helped organize an expert workshop on leisure travel in the Oresund region in May 2010, and supported an Master's study of travel behaviour to selected leisure destinations across the Oresund region. The work on Eco-Mobility will continue throughout 2011 with an additional public workshop planned for June 2011. The project is co-funded by Interreg IV A.

For further information:

[www.oresund.org/ecomobility](http://www.oresund.org/ecomobility)

CONTACTS: Åke Thidell, Tareq Emtairah

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### **ADVANCING MODELING ENERGY-EFFICIENCY POLICY EVALUATION APPROACHES**

The project "An innovative analytical framework for analyzing policy instruments for improved energy efficiency" aims to develop new modeling approaches to further advance energy-economy-environment (E3) models from a multidisciplinary policy evaluation perspective. Using residential sector as case study, the departure point of the project is that the assumptions that actors make rational decisions that are embedded in most conventional E3 models do not realistically represent technology choices. The approach of economic rationality overlooks critical market and behavioral imperfections (e.g. imperfect information). Microeconomic decision-making frameworks for efficient technologies are far more complex and depend on multiple parameters rather than purely energy-re-

lated and economic ones. With the purpose to better support policy-making processes, the project is divided in four phases. In phase I, a review of determinants that need to be taken into account when analyzing the process of (non-) adoption of efficient technologies is to be conducted. In phase II, critical analysis of more than 10 bottom-up E3 models and more than 20 modeling studies evaluating policy-driven technological change will be performed. The outcomes from phase I and II are to be used in phase III to develop the technical grounds to adapt a new E3 model that incorporates (i) decentralized micro-economic decision choices and (ii) co-benefits of increased energy efficiency (e.g. comfort). Finally, phase IV will use, test and scrutinize the usefulness and validity of this new model to evaluate energy efficiency policy instruments targeting the Swedish residential sector. The project team has collaborated with several institutions, including EDF, GDF-Suez, Lawrence Berkeley National Laboratory, Skanska, Stanford Modeling Forum, Utrecht University and the World Business Council for Sustainable Development.

CONTACTS: Luis Mundaca, Lena Neij

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### ENERGY EFFICIENCY IN BUILDINGS

The development of modern society has resulted in a constantly growing demand for energy. Currently, our built environment accounts for around 40% of the total global final energy use, and is thus a main contributor to climate change. Although scenarios show that a major share of future greenhouse gases reductions is expected to be achieved by more efficient energy end-use, less attention has been paid to how to foster the development and diffusion of technologies for efficient energy use. The project "Policy instruments for efficient energy use in buildings" which has been performed for the Centre for Energy and Resource Efficient Construction and Facilities Management (CERBOF) had the goal to provide insights into how various policy strategies have, and have not, supported successful trajectories of new energy efficient building technologies, such as heat pumps, energy efficient windows and improved insulation. The project contributes important knowledge on how various policy instruments affect innovation for energy efficiency in building-related technologies/products. This knowledge is critical in the process of improving policy interventions and developing effective policy instruments for the future. The project was completed in 2010.

CONTACTS: Bernadett Kiss; Lena Neij

### LOMMA HARBOUR – SUSTAINABLE URBAN DEVELOPMENT

In 2003 the Institute developed an environmental programme for the new residential area "Lomma Harbour" just 10 km from Lund. The unique feature of the programme was that the contractors should declare their environmental commitments and thus define what they considered as Best Available Techniques and Practices. In the environmental programme the IIIIE emphasized that these commitments should be carefully followed up and suggested a process for doing so. This work also sought to facilitate the learning process aiming to transferring good practice from one exploitation phase to the next.

Thanks to a forward-looking administration in Lomma and a grant from the Swedish government's Delegation for Sustainable Cities, during 2010 the Institute could re-connect with Lomma Harbour in a collaboration project including Lomma municipality, the University of Agricultural Sciences/Alnarp and the IIIIE. The aim is to develop generic tools for the follow up process and to map progress in sustainable urban design. The project will continue for three years and include experience sharing with other regional projects on sustainable urban development.

CONTACTS: Åke Thidell

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### CHEMICALS IN PRODUCTS

The IIIIE perceives that chemicals used in the society will gain increasing attention in the near future and that demands for better information on chemical compositions also for goods and articles (non-chemical products) will increase. The IIIIE has a strong tradition in studies and research on supply chains and product-related information systems and during 2010, the Institute was commissioned to contribute to the UNEP lead policy strategy of the "Strategic Approach to International Chemicals Management" (SAICM). This work requires an international overview of existing systems providing information on Chemicals in Products/articles, stakeholder needs for such information, and identifying information gaps. In the project report and in a series of workshops researchers also developed a set of recommendations for the implementation of general information systems pertaining to Chemicals in Products/articles.

The report can be accessed from [www.chem.unep.ch/unepsaicm/cip/Documents/Kogg\\_Thidell\\_CiP%20report\\_final.pdf](http://www.chem.unep.ch/unepsaicm/cip/Documents/Kogg_Thidell_CiP%20report_final.pdf)

CONTACTS: Åke Thidell, Beatrice Kogg



### GLOBAL ENERGY ASSESMENT (GEA)

The Global Energy Assessment (GEA) is a major, multi-year initiative to define a new global energy agenda for a rapidly changing world. The project has brought together more than 300 authors from all around the world and more than 200 reviewers have been engaged to contribute independent, scientifically based, integrated, and policy-relevant analysis of current and emerging energy issues and options. The project is hosted by IIASA in Luxemburg, Austria, and supported by a number of governments, UN organizations, foundations and corporations. The main report of GEA will be published in 2011.

The work is driven by a conviction that global energy systems must change for many reasons, and in doing so address a number of societal challenges – not least population growth, which is projected to add 2 billion people to the current population of 7 billion people by 2050. They will all need modern forms of energy, as will the circa 3 billion people that today lack such access to modern energy services and live in poverty. Growing economies around the world need more energy serv-

ices. Energy security is a major concern for most governments. Energy systems today are based on around 80% fossil fuels and contribute more than 50% of all greenhouse gases, a figure that must be reduced by 50–80% by 2050 and more thereafter if climate change goals are to be met. Energy systems have significant health impacts and environmental disturbances, and a number of ancillary risks, including the risk of nuclear weapons proliferation. All these challenges must be addressed at the same time.

GEA assesses resource and technology options, both on the demand and the supply side, and explores how they can be combined to systems that meet all the challenges, and how they could be implemented.

Several researchers at the Institute are engaged in GEA as authors: Aleh Cherp, Lena Neij, Luis Mundaca, and Lars Strupeit. Thomas B Johansson is a Co-Chair of GEA's Executive Committee.

For more information, see [www.globalenergyassessment.org](http://www.globalenergyassessment.org)

# International Collaborations – a Selection

## COLLABORATION WITH THE NATIONAL INSTITUTE FOR ENVIRONMENTAL STUDIES, JAPAN

The IIIIE's 2008 joint research collaboration agreement with the National Institute for Environmental Studies in Japan brought forward two projects in 2009–10. One was on deposit-refund system, where an IIIIE researcher looked into the Swedish experience of deposit-refund systems for beverage containers over the last two decades and contributed to the systematization of various types of deposit-refund systems found in different countries. The other was on the actual implementation of collection of used mobile phones in five European countries. The findings from both studies were to contribute to the development of policy measures in the respective areas in Japan.

## CHINA. IIIIE STUDENTS AT THE WORLD EXPO IN SHANGHAI 2010

In April 2010 IIIIE MSc students went to Shanghai to participate in a Swedish-Chinese students' competition and cooperation project on the theme "Sustainable Urban Future". The objective of the competition was to analyse and discuss innovative ideas for how cities can envisage long-term solutions regarding urban structures and modes of living that can in turn lead to actions for sustainable urban development. The task was to generate a proposal for sustainable redevelopment of a specific Shanghai city district: Lilong Gardens. The students participating in the project came from Lund University, KTH (Stockholm), Fudan University (Shanghai) and Tongji University (Shanghai) and were studying urban planning, urban design and

environmental management. In July student contributions were displayed and presented at the World Expo in Shanghai "Better City Better Life" and were judged by a Swedish-Chinese panel. The panel included Professor Wenhui Shan, Fudan University; Professor Lars Reuterswärd, UN-Habitat; Professor Ulf Ranhagen, KTH; Professor Siegfried Wu, Tongji University; and Professor Lena Neij, IIIIE. The event was sponsored by the Swedish Ministry of the Environment and the prize was handed over by State Secretary Elisabet Falemo of the Swedish Ministry of the Environment.

## CHINA. IIIIE COOPERATION WITH CHINA AND SHANDONG UNIVERSITY

IIIIE and The School of Economics at Shandong University (SESU) have an agreement for collaboration in teaching and research since 2004. Part of the cooperation between the IIIIE and SESU also includes The Industrial and Commercial Bank of China (ICBC). Both the IIIIE and SESU have had exchange of Visiting Professors. In 2009 Lars Hansson, a regular Visiting Professor at SESU since 2004, was officially appointed Guest Professor "in appreciation of his outstanding contribution to the development of the Shandong University". During the Autumn Semester 2010 Professor Renqing Wang, Director of The Institute of Ecology and Biodiversity at Shandong University (IEBSU), together with Professor Yuchun Li and Yutao Wang visited the IIIIE. This visit was a follow-up of the previous studies of Yutao Wang as a Visiting PhD candidate at IIIIE in 2008–2009. During the visit it was decided to further extend cooperation between the two universities by signing a Memorandum of Agreement between IIIIE and IEBSU on educational exchange.



Sitting: Lars Hansson, Professor Renqing Wang, Professor Yuchun Li  
Standing: Song Lin, Wei Huang, Wang Yutao, Li Xiao

## EASTERN EUROPE

The Institute has continued its cooperation with various academic institutions and other organisations in the Baltic States, Belarus and Russia. Cooperation with Dr Sjarhei Darozhka at the Belarusian National Technical University, supported by the Swedish Institute, continued with student and staff exchanges. Notably, this included a group of IIIIE students visiting Belarus to study the development in the waste management and recycling area, with particular emphasis on the potentials for public-private partnerships. With Dr Darozhka, and

supported by the Swedish Environmental Protection Agency, the IIIIE also continued its support to the Belarusian environmental authorities in developing their approaches and legislation in the field of recycling and, in particular, Extended Producer Responsibility (EPR). As part of this work, a seminar was organised in Minsk on 19 March in cooperation with the Ministry of Environment and Natural Resources and with participation of Swedish experts in recycling and EPR. The cooperation with Russia has included the development of sustainability-oriented education in a number of Russian universities and support to the authorities in St Petersburg when developing their waste management strategies.

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### EUROPEAN TOPIC CENTRE ON SUSTAINABLE CONSUMPTION AND PRODUCTION

In 2010 IIIIE continued to conduct a number of projects as a partner in the European Topic Centre on Sustainable consumption and production at the European Environmental Agency. IIIIE staff participated in a project that aimed to develop, identify and use indicators of sustainable consumption and production, including indicators of resource productivity. Main lines of work within the consumption area included dissemination of results of a study on factors that shape consumption by households. Another ongoing study analyzes how public perceptions change (and are changed) over time, and how they could facilitate shifts in both policy and the institutional settings of society to promote sustainable consumption and production. IIIIE staff were also engaged in the assessment of how recycling activities contribute to the enhancement of green economy in Europe. In addition to the literature review on the coherence between recycling and green economy, IIIIE researchers evaluated the effects of recycling in job creation. Finally IIIIE staff participated in the preparation of the State of the Environment report that was published in autumn 2010 by the EEA ([www.eea.europa.eu/soer](http://www.eea.europa.eu/soer)).

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### NORDIC EXPERT WORK SHOP ON SUSTAINABLE CONSUMPTION AND GREEN LIFESTYLES

The IIIIE and the Copenhagen Resource Institute (CRI) were commissioned by the Danish EPA and the Nordic Council of Ministers to set up and conduct a Nordic expert workshop on sustainable consumption and green lifestyles in Copenhagen 24–25 November 2010. The workshop gathered 33 experts from all Nordic countries representing NGOs, retail trade, industry,

governmental agencies, and academia in the field. The expert participants noted that sustainable consumption remains a relatively immature policy field, and that policy-making in Sustainable Consumption and Production has tended to focus mostly on improving production and products. It was therefore recommended that greater attention should be given to addressing the demand-side, by developing effective policy approaches on sustainable consumption and green lifestyles. It was concluded that regulatory and economic policy tools often are more effective in promoting sustainable consumption, although they are less commonly used than voluntary and information-based instruments. The final workshop report will be published during spring 2011 on the web site of the Danish EPA [www.mst.dk](http://www.mst.dk)



Thomas Lindhqvist and Åke Thidell facilitating workshop discussions.

## Guest Researchers

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### **DR. TOMOHIRO TASAKI, JAPAN**

The IIIIEE has hosted Dr. Tomohiro Tasaki, a senior researcher from the National Institute for Environmental Studies in Japan, since October. During his 11-month stay at the IIIIEE, he will study policies on 3R (Reduce, Reuse and Recycle) and waste in European countries and analyze how the allocation of responsibilities affects effective implementation of such policies.

### **PROFESSOR PER MICKWITZ, FINLAND**

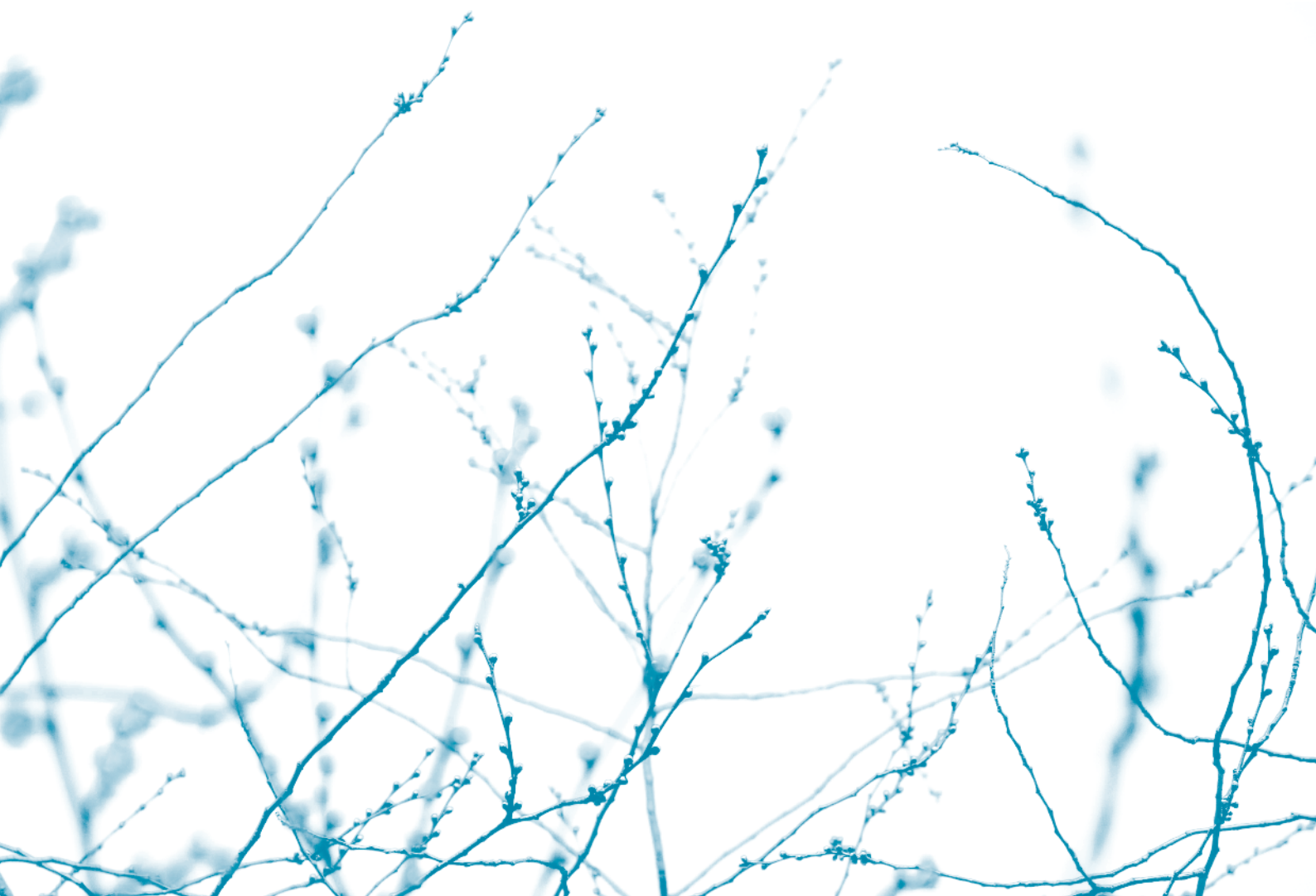
Per Mickwitz is Professor (Environmental Policy) at the University of Tampere with a permanent position as Research Professor at the Finnish Environment Institute. He worked as a Visiting Professor at the International Institute for Industrial Environmental Economics at Lund University during the period April to May.

### **PROFESSOR JIM SALZMAN, USA**

Professor Jim Salzman has contributed to our MSc programmes with a highly appreciated two-day session on Trade and the Environment for many years. This year he stayed home at Duke University in USA and delivered his classes in a video-conference setting. A round-trip over the Atlantic was saved! But we also missed having Jim here!

### **PROFESSOR MICHAEL FAURE, BELGIUM**

One of the student favourites among visiting professors is Professor Michael Faure of Maastricht University in Belgium. He combines law and economics perspectives into a module for the Policy courses in our Master's programmes. With a starting point in property rights and liability rules, Michael clarifies the fundamental basis of our legal systems in an entertaining manner.



# Educational Activities

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The Institute's educational effort is focused on MSc level courses and is carried out through two programmes:

- MSc in Environmental Management and Policy (EMP), and
- MSc in Environmental Sciences, Policy and Management (MESPOM)

## **MSC IN ENVIRONMENTAL MANAGEMENT AND POLICY (EMP)**

The EMP programme is the original IIIIE MSc effort and started in 1995. As of 2010, 419 students have graduated. It is an applied and multidisciplinary programme designed to provide graduates with a solid foundation for action in the area of preventive environmental management and strategies. Candidates are required to have a professional degree in e.g. law, business, engineering, and preferably relevant work experience prior to admission. Read more on [www.masters.iiiie.com](http://www.masters.iiiie.com) and [www.iiiie.lu.se](http://www.iiiie.lu.se).

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## **MSC IN ENVIRONMENTAL SCIENCES, POLICY AND MANAGEMENT (MESPOM)**

The MESPOM programme was launched in 2005 in cooperation with Central European University, Hungary, the University of Manchester, UK and the University of the Aegean, Greece, and is based on the existing MSc programmes of the partners. This is an ERASMUS MUNDUS (EM) funded programme that was won in competition, with IIIIE and Lund University as the coordinating institution. After the first five year funding cycle, funding was renewed 2009 for a second five year period. As of June 2010, 123 students have graduated from this programme. The students share their study period between three of the four partner institutions and upon completion receive a joint multiple degree from the partnering institutions. Students, as well as visiting scholars, have an opportunity to obtain financial support through the EM programme. Deadline for applications is early January. For more information see [www.mespom.eu](http://www.mespom.eu)

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## **GENERAL CHARACTERISTICS OF THE PROGRAMMES**

The careers pursued by IIIIE graduates generally track to environmental/sustainability consulting and management positions within industry and government spheres. Alumni also are active in other positions including international organizations, NGO's and academia.

Both programmes are two-year undertakings in line with the requirements of the Bologna process. The MESPOM programme has a traditional four-semester structure with a summer-break in between the two academic years. The first two semesters are in Budapest with one month spent on the Greek Island of Lesbos, the third is in either Lund or Manchester, and the fourth is for thesis writing.

In the EMP programme, the IIIIE has developed a structure to allow students to stay with their employment for the first year by reading the first semester as a part-time distance course over the full first year. Thus the students stay at home and do not arrive to Lund until the second year when three semesters are then condensed into 13 consecutive months with the final thesis performed during the European summer. The combination of distance and on-site teaching is intended to make it easier for the key target group – professionals – to attend the programme. All teaching is carried out in English by an international inter-disciplinary staff representing more than 15 countries.

The courses are intense and demanding but also rewarding: our graduates have done extremely well in the job market and essentially all move on as professionals in the environmental field.

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## **INTERVIEW WITH HÅKAN RODHE, HEAD OF EDUCATIONAL PROGRAMMES**

- Are you pleased with 2010?
- Very much so, it has been a fantastic year with success crowned with some extraordinary student performances. The exercise in Shanghai was a great experience. However, everyone is curious about the impact of the new fees for non-European students.
- What do you foresee?
- It is a substantial change and it is sure to affect student numbers next year. Luckily we have a well-established quality product and Sweden is a unique location for an environmental MSc. But we definitely

need to step up our marketing and find scholarship opportunities.

- So, what are your wishes for the up-coming year?
- More fantastic students joining our programmes, and a more courageous environmental policy around the world - the world needs action!

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### IIIEE INTERACTION WITHIN LUND UNIVERSITY

30% of the education delivered by the IIIEE is for different parts of Lund University, and it ranges from regular courses to more innovative events. Three courses plus a thesis project makes a one-year master for the Natural Science Faculty, and here we also have our only undergraduate teaching in the form of a half-semester course for environmental science students. Our interdisciplinary and industrial perspective receives high marks in the course evaluations. For the natural science faculty we also contribute with modules to their new climate Master's course. Our overview course for final-year engineering students also is well-liked by the students. Integration of technology, business and environment appeals to the engineers-to-be.

Nano-science engineering students are supported by IIIEE staff in their own student-developed course.

We have well-established collaboration with the Master in Entrepreneurship at the LU Business School

where IIIEE students take the role of environmental consultants in their business projects.

IIIEE staff teaches at other courses at LU including at the Faculty of Engineering and the Faculty of Social Sciences.

Sustainability Challenge - a case competition was held in September where IIIEE and business school students in joint teams took on environment-related business challenges; with a live case by the sponsor CARDO in the final round. A great event jointly organized by the School of Management and Economics, Congress for Environmental Advancement and the IIIEE.

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### INTERVIEW WITH PETER ARNFALK, COORDINATOR OF IIIEE DISTANCE EDUCATION EFFORTS

- Peter, distance education at IIIEE continues to attract attention – what is going on?
- Well the excellence award we received last year from the European Association of Distance Teaching Universities has served as a positive incentive to continue our efforts in the area. Our own activities are improved continuously and we also share what we have learned in various ways. It is interesting to note that the skills our students acquire when communicating and learning at a distance are increasingly recognized as something valuable in the job market.

## We have E-xcellent E-learning

During 2010, the IIIEE was awarded the E-xcellence label from The European Association of Distance Teaching Universities – EADTU. The E-xcellence instrument is a quality benchmarking assessment tool covering the pedagogical, organisational and technical frameworks with special attention on accessibility, flexibility and interactivity. By achieving the E-xcellence label, universities or institutions demonstrate that they offer quality controlled e-learning and keep up to date with the latest developments. IIIEE has earned the label for the online distance education part of its EMP programme.



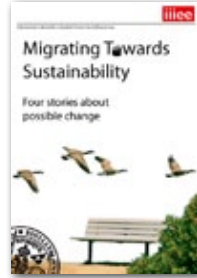
## SED-courses

### DISTRIBUTED TREASURE – ISLAND ECONOMIES



“Distributed Treasure – Island Economies” is a publication of the MESPOM Masters students at the IIIIEE. It continues the tradition from last year that the research made by the students in the Strategic Environmental Development (SED) course will result in a publication written and designed by the students. With IIIIEE staff Mikael Backman and Thomas Lindhqvist as team leaders, the students explored the concept of Distributed Economies with case studies from seven islands spread over the globe and added their own reflections on the usefulness of the concept. The report is available in pdf-format from [www.lu.se/o.o.i.s?id=27132&postid=1787022](http://www.lu.se/o.o.i.s?id=27132&postid=1787022).

### MIGRATING TOWARDS SUSTAINABILITY



During April 2010, the students in the EMP Masters Programme used their Strategic Environmental Development (SED) course to produce the report “Migrating Towards Sustainability: Four stories about possible change” (available in pdf-format from [www.lu.se/o.o.i.s?id=27132&postid=1782172](http://www.lu.se/o.o.i.s?id=27132&postid=1782172)). The publication contains four case studies from Norway, Italy, Shanghai and Belarus.

## IIIIEE students on Consumption Study Visit Tour

Much of the in-house teaching at the IIIIEE is illustrated by real-life examples from study visits or guest lecturers. Course modules dedicated to (un)sustainable consumption and production, life cycle impacts of products and consumption patterns serve as starting points for discussions on the role of consumer behaviors and opportunities for changes. In 2010, the EMP programme used consumption of meat and meat production as an illustrative example. The students learned about meat

production and its sustainability implications in classes. In the study tour they visited sites of animal feed production, an organic farming estate, the major abattoir in the region, as well as a biogas production site (for vehicles) that is produced from the waste. In addition to experiencing the processes, the visits provided frequent opportunities to listen to and interview different stakeholder representatives on how they view the related sustainability and climate issues. The tour

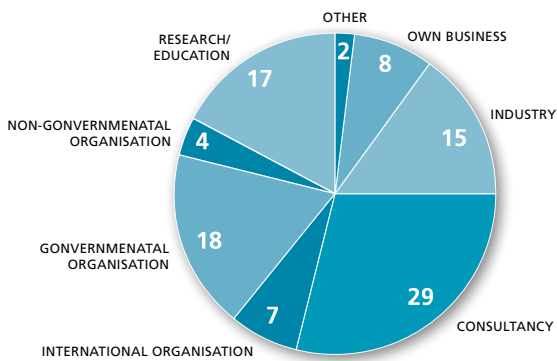


was blessed by excellent autumn weather conditions and our county Skåne showed its very best side.

Håkan Rodhe, the Director of Educational Programmes together with Batch 16 students on the beach in Haväng

# Alumni

With the graduation of 4th MESPOM students in June and 15th EMP students in September, the IIIIE Network – the organization consisting of alumni from the two MSc programmes and old and current IIIIE staff – now has more than 550 members from more than 80 countries. According to the survey carried out by the Executive Committee of the IIIIE Network in the beginning of 2010, 80% of these graduates engage themselves in the environmental sector, in a variety of capacities such as consultants, government officials, researchers and teachers, and industry professionals.



Current careers of the IIIIE graduates (based on a survey carried out by the Executive Committee of the IIIIE Network:99 graduates responded)

Current IIIIE students now have opportunities to learn about how the “old-batches” managed to be where they are through “e-career” service where they can contact graduates directly. The graduates also contribute by way of the hosting of student exercises, providing lectures, offering thesis topics and being thesis opponents (to name a few). A highlight in 2010 was the Strategic Environmental Development course, where Åsgeir Helland (Batch 8 = graduated in 2004) invited 4 students to be engaged in a sustainable city development of Sarpsborg, Norway.



Graduate Åsgeir Helland (second from right) offering guidance to EMP students during the Strategic Environmental Development course

In addition to the active communication via several on-line portals, graduates also meet in various corners of the world. Occasionally fortunate teaching staff also join such gatherings! A growing number of graduates are involved in the IIIIE educations in various forms.

# Supporters of IIIEE Education

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Companies and organizations that have contributed to the quality of education at the IIIEE during the past year through study visits, practical exercises, demonstrations, guest lectures, and thesis projects are listed below. These organizations have thereby given the students opportunities to apply their knowledge and granted a glimpse of the reality that they will encounter in their further careers.

- AB Volvo Trucks
- Agrifood Economics Centre
- Ängavallen Estate
- Belarusian National University, Minsk, Belarus
- Biogas Syd AB
- Business Center Bornholm, Denmark
- City of Lund, Brunnskög Development Project
- City of Malmö
- Clean Production Action, Canada
- Cleantech Scandinavia
- Concorzio Universitario Mediterraneo Orientale, Noto, Italy
- Copenhagen Institute of Technology, Urban-, Energy-, and Environmental Planning of Aalborg University
- Copenhagen Malmö Port AB
- EMP Recycling, Lithuania
- European Spallation Source Scandinavia
- First Hotel Planetstaden
- Flextrus AB
- Gambro AB
- GES Investment Services, Denmark
- Hafslund ASA, Norway
- Hawaii County Energy Office, USA
- Hedson Technologies AB
- Heidelberg Cement AB
- Helsingborg City
- Kristianstad kommun, Biogas plant
- Lacunea, Italy
- Länsförsäkringar Skåne
- Lantmännen Agriculture
- Lindinvent AB
- Lions Club
- LUCSUS
- Lund Institute of Technology, Building Physics
- Lunds Energi AB/Kraftringen
- Maridiana Azienda Agraria, Italy
- Ministry of Environment and National Resources, Belarus
- Nordic Centre at Fudan University, Shanghai, China
- Policy Navigation Group, USA
- Ramböll, Denmark
- Region Skåne
- Rocky Mountain Institute, USA
- Roskilde Festival, Denmark
- Royal Institute of Technology
- Scan AB
- Schneider Electric AB
- Skanska Sverige AB
- Södra Cell, Mörrums bruk AB
- Sustainable Business Hub
- Swedish Energy Agency
- Swedish Ministry of the Environment
- SYSAV AB
- TeaFourTwo Distance Education
- Tjörn Municipality
- Trelleborg AB
- UAB Ekokonsultacijos, Lithuania
- UN World Food Programme
- Universidad Católica de Argentina, Argentina
- VA syd, Källby wastewater treatment plant
- Vattenfall Management Consulting AB
- VTT Technical Research Centre of Finland
- Wanås Estate
- Wirtén PR & Kommunikation AB
- World Bank Group, USA
- ÅF Energy Consultants

# Young Masters Programme

Since 1999, the IIEE has managed the Young Masters Programme for Sustainable Development (YMP). The programme is a web-based, interactive distance-learning course designed for students between 16–18 years of age. It focuses on issues related to sustainable development and preventive environmental strategies.

The education facilitates concrete sustainability skills and provides easy-to-understand information on the major sustainability challenges facing humanity. It is available for schools, students and teachers worldwide and distributed free of charge. The YMP is at this time available on-line at <http://www.iiee-ymp.org>, but will in 2011 be migrated to a new, more powerful platform at [www.goymp.org](http://www.goymp.org).

Late in 2008, IIEE applied to SIDA (Swedish International Development Cooperation Agency) for financial support to expand and develop the YMP. In September 2010, a 10 MSEK grant was awarded YMP for the period 2010–2012. One condition set by SIDA for the grant was that the long-term financing of the YMP must be secured through sources other than SIDA and/or other public services. As a result, a new organisational structure for a long-term and independent financing of the YMP is currently being implemented and a YMP Foundation is being established. The purpose of this foundation is to safeguard that the YMP is offered free of charge all over the world, and that the focus will remain in accordance with values and policies of the IIEE.

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## GROWING DEMAND FOR YMP IN CHINA

Since 2008, there is a rapidly growing number of schools in southern China that have been participating in YMP, and then have continued to use the interactive group pedagogy from YMP of as a general off-line learning strategy for their whole schools.

In September 2010, IIEE and the Young Masters Programme were presented on CCTV national news. The President of China, Mr Hu Jintao, promoted YMP at the “National Education Day” as an example of excellent new pedagogical tools to be implemented in high schools all over China. As a result of this recognition, efforts have been made from the YMP team and its Chinese partners to take on a much larger number of Chinese students over the coming years.

YMP has true global outreach – students from 113 countries have participated in the programme. It is available for schools, students and teachers worldwide and distributed free of charge. The YMP teacher network consists of over 2000 teachers from all over the world and by the end of 2010, some 20 000 students have utilised the YMP course.



YMP is presented to China's President Hu Jintao (From: CCTV News, September 2010)

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## VISION AND PLANS

The vision for the Young Masters Programme is to draw on the experiences since 1999 and move forward to create the largest, most comprehensive and exciting distance education on sustainable development in the world. In order to be able to meet that vision, as well as the growing demand globally for such education, the YMP is now initiating a dynamic development and expansion phase of the programme.

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## BOARD OF PATRONS

The Young Masters Board of Patrons provides valuable leadership and direction for the development of the YMP. It consists of key decision makers and prominent leaders, who are genuinely committed to the vision of building a sustainable society and who share the IIEE's belief that education and empowerment of young people play a pivotal role in achieving that vision. During 2010, the YMP Board of Patrons included the following members:

## BOARD OF PATRONS

**Anders Wijkman** (Chairman)

Member of the European Parliament

**Ebba Lindsö**

CEO Respect

**Allan Larsson**

Chairman of the Board of Lund University

**Görel Thurdin**

President of the Swedish National Commission  
for UNESCO (part of 2010)

**Carolina Sachs**

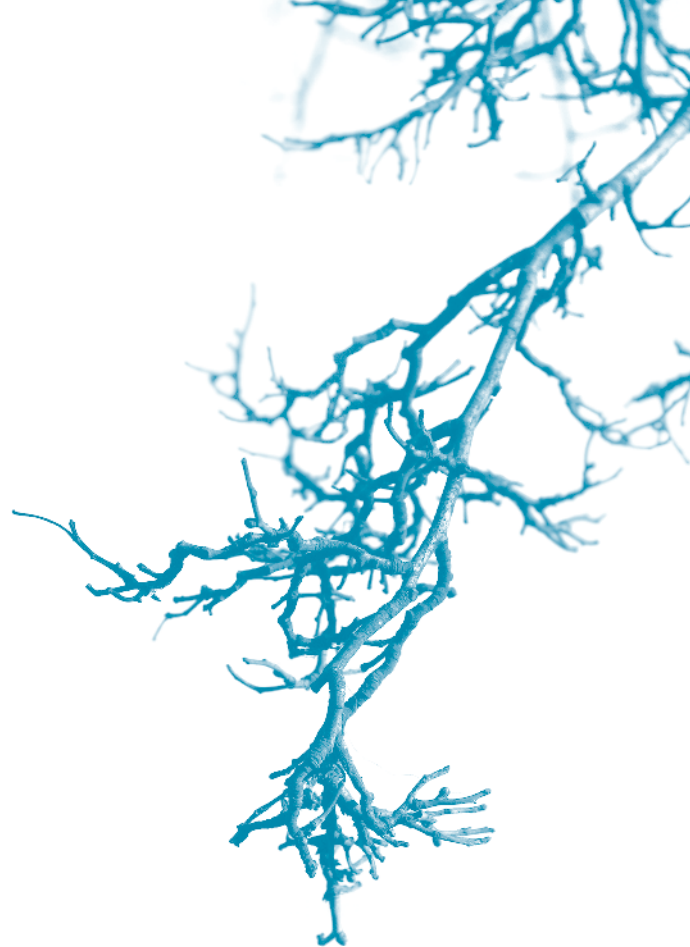
Antonia Ax:son Johnson Foundation for  
Sustainable Development

**Anthony Simon**

Senior Advisor, World Business Council for  
Sustainable Development

**Margot Wallström**

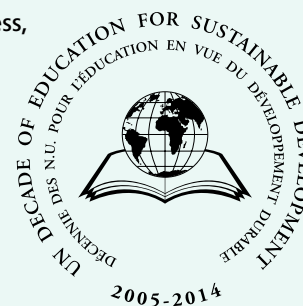
Vice-President of the European Commission and  
Commissioner for Institutional Relations and  
Communication Strategy (part of 2010)



## UNESCO and the UNESCO Chair at IIIIE

The United Nations Decade on Education for Sustainable Development started in 2005, with UNESCO as the lead agency. Part of the work under the Decade is the UNITWIN/UNESCO Chairs Programme that was established in 1992. It was primarily launched with the aim of developing interuniversity co-operation, while emphasizing the transfer and sharing of knowledge between universities and the promotion of academic solidarity across the world. Through the Programme, UNESCO wishes to facilitate the use of Information and Communication Technology (ICT) and distance education in the service of higher education. UNITWIN/UNESCO Chairs projects deal with training and research activities and cover all major fields of knowledge within UNESCO's competence such as Education, Natural Sciences, Social and Human Sciences, Culture and Communication and Information. Over the last ten years the UNITWIN/UNESCO Chairs Programme has developed into a truly worldwide, interuniversity co-operation scheme based on interdisciplinary work, by building university networks.

In October 2005 the IIIIE became a chair holder within the UNITWIN/UNESCO Chairs Programme regarding Education for Sustainable Development, based on the project "Development and provision of online educational courses in sustainable development". In the long-term, the University will continue to develop and carry out further training courses for governments, business, academia, secondary and higher education students and NGOs. The IIIIE as an internationally respected provider of online courses in sustainable development will have a central role within these efforts.



# Energy 4 Sustainable Development Online Course

The benefits of improved energy systems for poverty reduction, economic development, environmental and social co-benefits, and the potential to strengthen energy security have been recognized in academia and in the international community. In particular, affordable, secure and clean forms of energy are a prerequisite to achieving all Millennium Development Goals and the challenge of addressing climate change will require major transformations of the global energy system. In this context increased human and institutional capacity and new partnerships are considered critical to facilitate: (1) expansion of access to modern energy as a prerequisite for socio-economic development and poverty reduction, (2) accelerated transition to low-carbon energy systems and (3) increased energy security at household, national and regional levels.

In response to this need for capacity building, IIEE developed and ran a global e-learning programme on Energy for Sustainable Development (E4SD) since 2005. The programme primarily targeted mid- and senior level professionals from government, NGOs, multilateral and bilateral Official Development Assistance (ODA) businesses, and the private sector who are engaged in energy and development activities in Africa, Asia and Latin America.

Until the end of 2010, the E4SD initiative was led by the IIEE, in partnership with the United Nations Development Programme (UNDP), the United Nations Environment Programme (UNEP), and the Global Network on Energy for Sustainable Development (GNESD). From 2008 to 2010 the Swedish International Development Cooperation Agency (SIDA) funded the initiative and courses could be offered free of charge to all participants.

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## CAPACITY BUILDING FOR ENERGY AND DEVELOPMENT PROFESSIONALS AROUND THE WORLD

Since 2005 more than 400 energy and development professionals from more than 100 countries have participated in E4SD training sessions. As the courses are solely offered via distance e-learning, the training brings together energy and development stakeholders who would otherwise not meet in physical form. The courses have facilitated international and cross-sectoral exchange of knowledge and experience. This was a feature which participants appreciated as one of the most valuable benefits of the training. Many

professionals have also taken more specialized E4SD courses which focus on applied topics such as scenario techniques for policy making, or financing mechanisms for renewable energy and energy efficiency projects. All participants who successfully complete the training also become members of the E4SD Alumni Network.

Results from an evaluation survey issued to all E4SD participants by the end of 2010 indicate that many E4SD Alumni have applied E4SD knowledge extensively in their professional roles and for a variety of purposes. These include (1) energy project planning and implementation, (2) preparation and drafting of governmental policies, (3) development and delivery of education and capacity building programmes, (4) advocating the role of energy for development as well as for (5) research. Many participants also state that the course helped them expand their professional network.

Website: [www.e4sd.org](http://www.e4sd.org)



# The Swedish-Polish Sustainable Energy Platform

When the Prime Ministers of Poland and Sweden met in March 2006 they decided to initiate a Swedish-Polish co-operation in the field of sustainable energy. A major driver was a shared desire to significantly reduce dependency on imported fossil fuels, such as oil and gas. This common interest resulted in the establishment of a platform for knowledge and technology transfer – the *Swedish-Polish Sustainable Energy Platform*. The Platform is managed by two permanent secretariats, one at the *Institute for Fuels and Renewable Energy (IPIEO)* in Warsaw and the other at the *International Institute for Industrial Environmental Economics (IIIEE)* in Lund. These work in close collaboration with the Embassy of the Republic of Poland in Stockholm and the Embassy of the Kingdom of Sweden in Warsaw. The Swedish secretariat is funded by the Swedish Energy Agency and the Polish secretariat by the Ministry of Economy in Poland. A network of Platform stakeholders has been established and continues to grow.



Platform Director Mikael Backman celebrating the "Days of Zabrze" with city President Ms Malgorzata Manka-Szulik and a class of "Green Children".

The Swedish experience in renewable energy, energy efficiency and related policy instruments in the sustainable energy field can provide Polish stakeholders with applicable knowledge of opportunities, technologies and practice for the efficient and effective development of sustainable energy systems. Stronger collaboration between Sweden and Poland can benefit both countries. Subsequently the Swedish-Polish Sustainable Energy Platform has a main objective to disseminate existing knowledge on sustainable energy, and to establish a framework for strong bilateral contacts between Sweden and Poland. Representatives of relevant authorities, academia, media and private industries are involved to share views and experiences on policy options, research findings, new technologies and

the latest practical experiences, in the area of renewable energy and energy efficiency. The Swedish-Polish Sustainable Energy Platform is demand driven and aims to find the right partner-mix for specific projects and activities illustrated by the figure below:



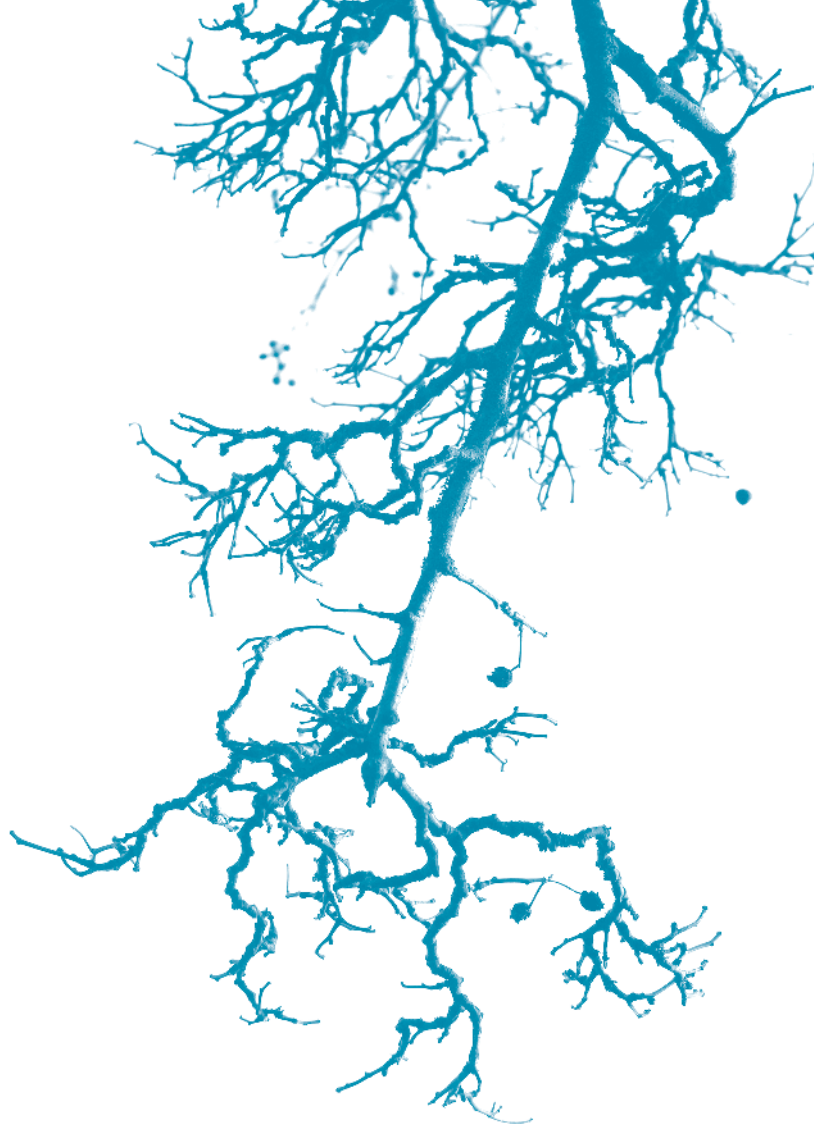
The Swedish-Polish Sustainable Energy Platform serves as a framework for bilateral contacts in the field of sustainable energy systems. The desired outcomes are to expand the transfer and use of knowledge in both countries, to mediate environmental degradation and climate change, to enhance the security of energy supply, and to maintain energy affordability.

During 2010 the Platform was engaged in a number of events and activities; the most significant are listed below:

- **February:** "Agricultural Biogas Power Plants – Swedish offer for Polish municipalities". Conference in Warsaw with focus on biogas production in the agricultural sector.
- **April:** "Energy for Eco-Efficiency in Poland – Business opportunities for Swedish companies". Conference, study-tours and matchmaking in Lund.
- **November:** Participation in POLEKO, the largest environmental fair in Central Europe.
- **December:** "The Lund model". Recordings of a TV-production regarding sustainable city developments in the City of Lund, to be broadcasted on national Polish Television.

In addition the Platform has supported and supervised two research projects, with the aim of documenting, analyzing success factors, and disseminating Swedish best practice:

- *Renewable energy systems at the local level*, by Diana Vega
- *The development of forest-based bioenergy*, by Dinko Bilic'



## The IIIEE Library

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During the year the Library has continued to develop its online services. At the beginning of July a new online service, the IIIEE LibGuide, was launched and attracted more than 1000 unique page views during the remainder of 2010. The LibGuide offers new ways of presenting information and can host many different formats, such as video and podcasts, information taken from RSS feeds, and a widget showing the latest updates from the Library on Twitter. The aim is to continuously develop the LibGuide with the help of feedback from students and faculty of the IIIEE.

During 2010 the Library has also started an international engagement in the form of aiding the development of the new library of the Nordic Centre in Shanghai. Together with other libraries at Lund University, the

Institute librarian was asked to make a short list of suggested acquisitions regarding environmental issues in the Nordic countries for the library as part of their budget preparations.

The IIIEE librarian has also evaluated the use of printed journals in the Library with the result that the number could be reduced for 2011. Most of these are also available through Lund University's online library and some subscriptions have been moved from print to "online" only. Going into 2011 the Library has decreased its spending on journals with more than 50 000 SEK (ca € 5 665).

Link to the Library LibGuide:  
<http://libguides.lub.lu.se/iiiiee>

# Publications 2010

## Journal and industry magazine articles

De Palma, R., & Dobes, V. (2010). An integrated approach towards sustainable entrepreneurship - Experience from the TEST project in transitional economies. *Journal of Cleaner Production*, 18(18), 1807–1821.

Lawhon, M., Manomaivibool, P., & Inagaki, H. (2010). Solving/understanding/evaluating the e-waste challenge through transdisciplinarity? *Futures*, 42(10), 1212–1221.

Leire, C., & Mont, O. (2010). The implementation of socially responsible purchasing in Swedish organisations. *Corporate Social Responsibility and Environmental Management*, 17(1), 27–39.

Lindhqvist, T. (2010). Policies for Waste Batteries. *Journal of Industrial Ecology*, 14(4), 537–540.

McCormick, K. (2010). Communicating bioenergy: a growing challenge. *Biofuels, Bioproducts and Biorefining*, 4(5), 494–502.

Mont, O., Chkanikova, O., Klintman, M., Kogg, B., & Karlsson, M. (2010). Livsmedelshandelns roll för gröna marknader: Avfall bästa gren. *Miljöforskning*, 2010(5).

Mont, O., & Power, K. (2010). The Role of Formal and Informal Forces in Shaping Consumption and Implications for a Sustainable Society. Part I. *Sustainability*, 2(5), 2232–2252.

Mundaca, L., & Neij, L. (2010). Evaluating energy efficiency policies with energy-economy models. *Annual Review of Environment and Resources*, 35, 305–344.

Mundaca, L., Neij, L., Worell, E., & McNeil, M. (2010). Evaluating Energy Efficiency Policies with Energy-Economic Models. *Annual Review of Environment and Resources*, 35, 305–344.

Power, K., & Mont, O. (2010). The Role of Formal and Informal Forces in Shaping Consumption and Implications for a Sustainable Society. Part II. *Sustainability*, 2(5), 2573–2592.

Tukker, A., Cohen, M. J., Hubacek, K., & Mont, O. (2010a). The Impacts of Household Consumption and Options for Change. *Journal of Industrial Ecology*, 14(1), 13–30.

Tukker, A., Cohen, M. J., Hubacek, K., & Mont, O. (2010b). Sustainable Consumption and Production. *Journal of Industrial Ecology*, 14(1), 1–3.

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## Reports and working papers

Acosta, N., Bai, Y., Bondesen, O., Cregar, A., Dowding-Smith, E., Kovandzic, J., ... Smit, A. (2010). Distributed Treasure: Island Economies International Institute for Industrial Environmental Economics at Lund University.

Arnfolk, P. (2010). Analysing the ICT-Paper Interplay and its environmental Implications: CEPI – Confederation of European Paper Industries.

Arnfolk, P., Pilerot, U., & Schillander, P. (2010). Resfria Möten – en handledning: Trafikverket.

Ashdown, H., Larsson, J., Di Pangraccio, A., Steinbusch, K., Asea, S., Eve, G., ... Smedby, N. (2010). Migrating Towards Sustainability: four stories about possible change: International Institute for Industrial Environmental Economics at Lund University.

Boman, N., Hagbjörk, M., Krantz, V., Sahlén, J., Jarmakowski, S., Larsson, G., ... Witten, J. (2010). Regional hållbar utveckling: en studie av öarna Dyrön och Åstol inom Tjörns kommun: International Institute for Industrial Environmental Economics at Lund University.

Dalhammar, C., Peck, P., Tojo, N., Mundaca, L., & Neij, L. (2009). Advancing technology transfer for climate change mitigation: considerations for technology orientated agreements promoting energy efficiency and carbon capture and storage (CCS): International Institute for Industrial Environmental Economics at Lund University.

Kautto, N. (2010). Planning biomass for energy: Examining the why, how and what of sound biomass policy: International Institute for Industrial Environmental Economics at Lund University.

Mundaca, L., & Neij, L. (2010). An implementation guide for the use and development of the EEB\_Sweden Model v1.0: International Institute for Industrial Environmental Economics at Lund University.

Tasaki, T., Numata, D., Matsumoto, T., & Tojo, N. (2010). Reframing the Concept of Collection Systems with Economic Incentives. Based on the Review of Deposit-Refund Systems and Point Systems: National Institute for Environmental Studies.

Tojo, N. (2010). Europe as a Recycling Society – Recycling policies for selected waste streams in EEA member countries: European Topic Centre on Sustainable Consumption and Production.

Tojo, N., & Lindhqvist, T. (2010). Product-oriented Environmental Interventions. Bundling of Policy Instruments: International Institute for Industrial Environmental Economics at Lund University.

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## Books and book chapters

Almgren, R., & Brorson, T. (2010). *Lätt med ISO 14001*: SIS Förlag.

Dalhammar, C. (2010). Policies promoting green chemistry: substitution efforts in Europe *Green chemistry for environmental sustainability* (pp. 249–268): CRC Press, Taylor & Francis Group.

Dalhammar, C., & van Rossem, C. (2010). Life cycle thinking, product standards, and trade: can we achieve a balance between different policy objectives? *Global Trade and Environmental Justice: New Approaches to Political Ecology* (pp. 193–218): Nova Science.

Emtairah, T. (2010). Saudi Arabia *The Word Guide to CSR: A country-by-country analysis of corporate sustainability and responsibility* (pp. 336–341): Greenleaf.

Junginger, M., Lako, P., Neij, L., Engels, W., & Milborrow, D. (2010). Onshore wind energy *Technological Learning in the Energy Sector – Lessons*

*for Policy, Industry and Science*: Edward Elgar.

Karlsson, R., Backman, M., & Djupenström, A.-K. (2010). Sustainability Considerations and Triple-Helix Collaboration in Regional Innovation Systems *Facilitating Sustainable Innovation through Collaboration* (pp. 17–39): Springer.

Lako, P., Junginger, M., Neij, L., Engels, W., & Lensink, S. (2010). Offshore wind energy *Technological Learning in the Energy Sector – Lessons for Policy, Industry and Science*: Edward Elgar.

McCormick, K. (2010). Bioenergy Systems and Supply Chains in Europe: Conditions, Coordination and Capacity *Innovative Schemes for Supply Chain Coordination under Uncertainty*: Springer.

Mirata, M., & Emtairah, T. (2010). *Water Efficiency Handbook* (Vol. Review Edition): AFED in cooperation with Technical Publications/ Al Bia Wal Tanmia magazine.

Nilsson, H., & Mont, O. (2010). Socio-economic aspects of farmers' markets in Sweden *System Innovation for Sustainability 3: Case Studies in Sustainable Consumption and Production – Food and Agriculture*: Greenleaf Publishers.

Sark, W. G. J. H. M., Nemet, G. F., Kahouli-Brahmi, S., Neij, L., & Wene, C. O. (2010). General aspects and caveats of experience curve analysis *Technological Learning in the Energy Sector – Lessons for Policy, Industry and Science*: Edward Elgar.

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## Conferences and miscellaneous

Arnfolk, P. (2010). What's Green in Green IT? Importance, Interpretations and Impacts. Key-note presentation at the Internet Reserach 11.0 Conference in Gothenburg, October 2010

Boman, N., Hagbjörk, M., Jarmakowski, S., Krantz, V., Larsson, G., Sahlén, J., ... Witten, J. (2010). Inte bara en vision: Dyrön Åstol: IIIIE Internationella miljöinstitutet vid Lunds universitet.

Boman, N., Hagbjörk, M., Jarmakowski, S., Krantz, V., Larsson, G., Sahlén, J., ... Witten, J. (2010). Not just a vision: Dyrön Åstol: IIIIE Internationella miljöinstitutet

vid Lunds universitet.

Budeanu, A., Emtairah, T., & Mont, O. (2010). *Revisiting the lock-in hypothesis on sustainable lifestyles: empirical evidence from consumption of leisure in three Swedish destinations*. ERSCP-EMSU 2010 Conference, Delft, the Netherlands.

Chkanikova, O., & Mont, O. (2010). *Towards sustainable retail: overview of retail practices in Europe*. The 2nd Nordic Retail and Wholesale Conference – NRWC 2010, Gothenburg, Sweden.

Dalhammar, C., van Rossem, C., Remmen, A., & Andersen, R. D. (2010). *Resource Efficiency and the Energy-Related (Erp) Directive: Future Options*: Aalborg Univ / IIIIEE.

Emtairah, T. (2010). *Wafeer Initiative: enabling a market for water efficiency in Saudi Arabia*. Case Study.

Kiss, B., Gonzalez Manchon, C., & Neij, L. (2010). *The importance of learning in supporting energy efficiency technologies – A Case Study on Policy Intervention for Improved Insulation in Germany, the UK and Sweden*. ERSCP-EMSU 2010 Conference, Delft, the Netherlands.

Kiss, B., McCormick, K., Neij, L., & Mundaca, L. (2010). *Policy Instruments for Energy Efficiency in Buildings: Experiences and Lessons from the Nordic Countries*. IEPEC, Paris, France.

Manomaivibool, P., & Tojo, N. (2010). *The Management of Used Mobile Phones in the United Kingdom – Is exporting for re-use a sufficient solution?* Paper presented at the Going Green CARE INNOVATION 2010.

McCormick, K. (2010). *Bioenergy at Climate Negotiations: Visions, Challenges and Opportunities*. World Bioenergy Conference, Jönköping, Sweden.

McCormick, K. (2010). *Biofuels for Transport in Europe: Lessons about Governance, Innovation and Sustainability*. Workshop on Governance of Innovation towards Sustainability: The Global Transport Sector. Stockholm, Sweden.

McCormick, K. (2010). *The Knowledge-Based Bio-Economy in Europe*. Knowledge Cities World Summit, Melbourne, Australia.

Mont, O., Kogg, B., & Leire, C. (2010). *Sustainable businesses practices in supply chains: learning from Swedish companies*. ERSCP-EMSU 2010 Conference, Delft, the Netherlands.

Mont, O., Leire, C., & Kogg, B. (2010). *Exercising CSR through socially responsible purchasing: Swedish organisations in focus*. Nordic Symposium on CSR, Copenhagen, Denmark.

Mont, O., & Power, K. (2010). *Understanding the complexity of consumer behaviour and implications for the sustainable consumption discourse*. ERSCP-EMSU 2010 Conference, Delft, the Netherlands.

Mundaca, L. (2010). *Energy use and carbon emissions: From decoupling and transitions to sufficiency?* Paper presented at the Biennial International Society for Ecological Economics Conferences.

Mundaca, L., & Neij, L. (2010). *A Meta-Analysis of Bottom-Up Ex-Ante Energy Efficiency Policy Evaluation Studies*. Paper presented at the International Energy Program Evaluation Conferences.

Murakami-Suzuki, R., Tojo, N., Manomaivibool, P., Terazono, A., & Murakami, S. (2010). *The Collection and Recycling Systems of Used Mobile Phone in European Countries and Japan*. EcoBalance 2010, Tokyo, Japan.

Peck, P. (2010). *Australian plantation forestry and wood-biofuel pellets: examining the role of Managed Investment Schemes*. World Bioenergy Conference, Jönköping, Sweden.

Power, K., & Mont, O. (2010). *Dispelling the myths about consumption behaviour*. ERSCP-EMSU 2010 Conference, Delft, the Netherlands.

Remmen, A., Andersen, R. D., & Dalhammar, C. (2010). *Integrated Product Policy Instruments*: Aalborg Univ / IIIIEE.

Rosenlund, H., Emtairah, T., & Visser, F. (2010). *Building Green in Jordan? Performance Evaluation of the aqaba Residential Energy Efficiency Pilot Project (AREE)*. Paper presented at the The 2nd International Conference on Sustainable Architecture and Urban Development.

Sinding, K., Peck, P., & Sharfman, M. (2010). *Bounding*

*The Corporate Social Responsibility Construct*. 2010 Academy of Management Annual Meeting: Dare to Care: Passion & Compassion in Management, Montreal, Canada.

van Rossem, C., Dalhammar, C., Remmen, A., & Andersen, R. D. (2010). *The Energy-Related Products (Erp) Directive and the Role of Standardisation in Driving Innovation*: Aalborg Univ / IIIIEE.

Voytenko, Y., & Peck, P. (2010). *Organisational frameworks for straw-based energy systems in Ukraine and Western Europe*. World Bioenergy Conference, Jönköping, Sweden.

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## Licentiate Dissertation

Kurdve, M. (2010). *Chemical Management Services from a Product Service System perspective: Experiences of fluid management services from Volvo Group metalworking plants*. 2010:01, International Institute for Industrial Environmental Economics at Lund University.

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## IIIIEE Master theses

Asea, S. T. (2010). *Strengthening Community Led Resilience to Threats of Climate Change in Africa*. Case Study Uganda. IIIIEE Master thesis.

Ashdown, H. (2010). *The Sustainable Future of Music Festivals: How can new policy instruments and voluntary guidance tools help music festivals become more sustainable?* IIIIEE Master thesis.

Ashraf, V. (2010). *Inter-State Water Issues in India: Root causes and guiding principles for conflict resolutions*. IIIIEE/MESPOM Master thesis.

Bilic, D. (2010). *Investigating the development of forest-based bioenergy: Transferring knowledge from Sweden to Poland*. IIIIEE/MESPOM Master thesis.

Capelan Tejjido, N. (2010). *Straw-based electricity generation: Conflicts and opportunities in Spain*. IIIIEE/MESPOM Master thesis.

Di Ponte, S. (2010). *Biogas for a Distributed*

*Development: Lessons learnt from Italian and Swedish cases*. IIIIEE Master thesis.

Eckert, J. (2010). *Adapting Organizational Models for Tanzania's Rural Communities: An exploration of meeting Tanzania's rural communities energy needs with community energy projects*. IIIIEE/MESPOM Master thesis.

Eve, G. (2010). *Stakeholder-based Scenarios for Hawaii's Electric Energy System: Overcoming structural barriers and lock-ins for Big Island's sustainable future*. IIIIEE Master thesis.

González Manchón, C. (2010). *Policy Instruments for Energy Efficient Buildings: Experience of the development of improved insulation levels in Germany and the UK: a case study of mineral wool*. IIIIEE Master thesis.

Hsieh, A.-S. (2010). *Analysis of Drivers and Barriers for Personal Computer Re-use: A case study of secondary PCs in Taiwan*. IIIIEE/MESPOM Master thesis.

Kavcic, K. (2010). *Energy service contracting in Slovenia: Comparison of the barriers and drivers for Energy service contracting development in Germany and Slovenia*. IIIIEE Master thesis.

Kazlauskaite, L. (2010). *Future without oil. Transition to a fossil free transport system*. IIIIEE Master thesis.

Larsson, J. (2010). *Implementing a Good Environmental Status in the Mediterranean Sea by 2020? Through the eyes of a small scale Fishing village – Sigri as a case study*. IIIIEE Master thesis.

Lu, L. (2010). *The Emerging Concept of Photo Tourism: Söderslätt as a case*. IIIIEE/MESPOM Master thesis.

Mansoz, M. (2010). *Climate change mitigation and energy efficiency: challenges in the wastewater sector*. IIIIEE Master thesis.

Marchington, E. (2010). *Rural Development in Thethi: Pursuing sustainable tourism in an Albanian mountain community*. IIIIEE/MESPOM Master thesis.

Meza Manjarrez, C. (2010). *Potential for the adoption of vermicomposting to stabilize sewage sludge in Mexico: Viewpoints from the main actors*. IIIIEE/MESPOM Master thesis.

Min, S. (2010). Towards A New Green Economy: Exploring the Political Feasibility of Carbon Tax Policy in Ireland. IIIIEE/MESPOM Master thesis.

Petrasova, M. (2010). Towards Islands of Sustainability: Energy Self Supply for the Tourism Island of Spiekeroog in 2030. IIIIEE/MESPOM Master thesis.

Smedby, N. (2010). Energy Policy Development in a Non-OECD Context – Early Experiences of Energy Efficiency Policy for Residential Buildings in Argentina. IIIIEE Master thesis.

Sonnenschein, J. (2010). Preparing for the Roll-Out of Electric Vehicles: Exploring how cities can become plug-in ready. IIIIEE Master thesis.

Steinbusch, K. (2010). Directions for Corporate Water Disclosure. Bridging Local Risks with Global Frameworks. IIIIEE Master thesis.

Van Den Dool, A. (2010). China's Sloping Land Conversion Program in Pingzhang village, Yunnan province: Effective, efficient, sustainable? IIIIEE/MESPOM Master thesis.

Vega, D. (2010). Energy supply transitions in Swedish municipalities. Transferability of the lessons learnt to Tandil, Argentina. IIIIEE Master thesis.

Wester, J. M. (2010). Innovation for Sustainability: Exploring the interplay between environmental management systems and environmental innovation processes. IIIIEE Master thesis.

Vijitpan, T. (2010). Climate Change Adaptation in Thailand: Exploration of No-Regrets Measures in the Policy Framework. IIIIEE/MESPOM Master thesis.

Yao, C. (2010). The Prospects for Biogas Systems in Rural China: Incentives, Barriers and Potentials. IIIIEE/MESPOM Master thesis

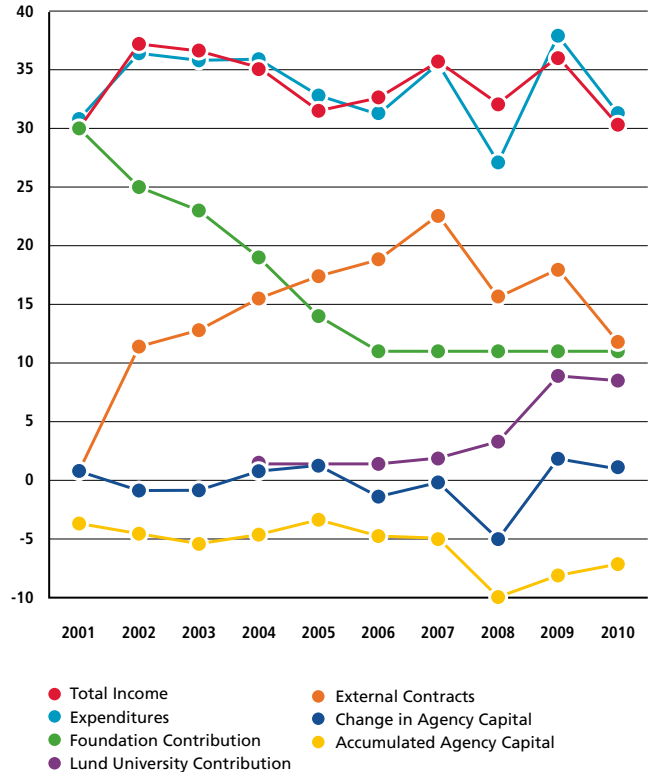


# Financial Report

During 2010, the overall expenditures amounted to 30.3 MSEK. On the income side the Foundation contributed 11 MSEK, external grants 11.8 MSEK and Lund University 8.5 MSEK\*.

In 2010 IIIIEE signed new external contracts amounting to approximately 11.8 MSEK. Out of these contracts Swedish Agency for International Development Cooperation contributed 16.0%, Swedish Research Council 15.6%, Swedish Energy Agency 8%, European Commission 4% and others 56.4%.

\*In 2008, Lund University introduced a new accounting model to be implemented in January 2009. The implementation of the new model had a negative effect on the result for 2008 because of a transfer of overhead proceeds from 2008 to 2009. The new system deals with overheads in a completely different way than before and has led to much higher overhead costs for the Institute. During 2009 and 2010 the overhead was 3.0 MSEK higher than previous years. Lund University contributed with 3.0 MSEK of extra funding to compensate the for the higher overhead costs, which explains why Lund University's contribution is higher than previous years.



## CONTRACTS, GRANTS AND DONATIONS 2010

- AB Centek vid Luleå Tekniska Universitet
- Agence de l'Environnement et de la Maîtrise de l'Energi – ADEME
- CERBOF – Centre for Energy and Resource Efficient Construction and Facilities management
- Copenhagen Resource Centre
- Embassy of Sweden, Beijing
- Eslöv Municipality
- European Commission
- European Environment Agency – EEA
- Helsingborgs stad
- Institut de Conseil et d'Etudes En Développement Durable – ICEDD
- International Institute for Applied Systems Analysis – IIASA
- International Programme Office for Education and Training
- Lund Municipality
- Lunds Energikoncernen AB
- Lunds Renhållningsverk AB
- Luleå Tekniska universitet
- Länsstyrelsen i Värmlands län
- Malmberg Borning AB
- Malmberg Water AB
- Probi AB
- Sustainable Business HUB AB
- Swedish Environmental Protection Agency (Naturvårdsverket)
- Swedish Agency for International Development Cooperation – SIDA
- Swedish Chemicals Agency (Kemikalieinspektionen)
- Swedish Energy Agency (Energimyndigheten)
- Swedish National Agency for Higher Education – Högskoleverket
- Swedish Research Council – FORMAS
- Swedish Trade Council – Exportrådet
- Teknikföretagen Sverige AB
- The Swedish Institute
- United Nations Environment Programme – UNEP
- Vattenfall AB

# Board and Staff 2010

## The Board

The IIIEE is governed by a Board appointed by the Swedish Government and Lund University. The members of the IIIEE Board January 2010 – October 2012 are:

### Ingalill Rahm Hallberg

Chairperson. Professor, Assistant Vice-Chancellor, Lund University. Director of the Swedish Institute for Health Sciences

### Anthony Simon

Former President Marketing, Unilever. Senior Advisor to the World Business Council for Sustainable Development

### Jacqueline McGlade

Professor. Executive Director, European Environmental Agency, Copenhagen

### Lena Neij

Professor, Director, IIIEE at Lund University

### Anders Wijkman

Vice Chairman, Tällberg Foundation. Senior Advisor, Stockholm Environment Institute

### Klas Eklund

Senior Economist, SEB. Adjunct Professor of Economics, Lund University

### Johan Rockström

Professor. Executive Director, Stockholm Environment Institute and Stockholm Resilience Centre

### Philip Peck

Adjunct member of the Board/Staff representative, (May 2010–May 2013)

### Oksana Mont

Adjunct member of the Board/Staff representative, (May 2010–May 2013)

### Panate Manomaivibool

PhD representative

### Nora Smedby

Students representative, (Sept 2009–Sept 2010)

### Geert-Jan van der Zanden

Students representative, (Sept 2010–Sept 2011)

## The Staff

Andersson, Gerd, Head of Administrative Services

Arnfolk, Peter, Associate Professor

Backman, Mikael, Senior Research Fellow

Brorson, Torbjörn, Visiting Professor

Cherp, Aleh, Associate Professor

Chkanikova, Olga, PhD Candidate

Dalhammar, Carl, Assistant Professor

Dobes, Vladimir, PhD Candidate

Emtairah, Tareq, Assistant Professor

Enell, Magnus, Adjunct Professor

Eriksson, Håkan, Technician

Foung, Carl, Director of Outreach Activities

Gillsander, Bodil, Senior Administrative Officer

Hansson, Lars, Associate Professor

Huisingh, Donald, Visiting Professor

Jacobsson, Torvald, Director of Young Masters Programme (YMP)

Johansson, Thomas B., Professor Emeritus

Karlsson, Mårten, Assistant Professor

Kautto, Niina, PhD Candidate

Kiss, Bernadett, PhD Candidate

Kittel, Gunilla, Project Coordinator/Student Officer

Knöppel, Elisabeth, Project Coordinator (YMP)

Kogg, Beatrice, Assistant Professor

Kurdve, Martin, PhD Candidate

Liedholm, Jenny, Financial Officer

Lindhqvist, Thomas, Associate Professor/Director of PhD Education

Manomaivibool, Panate, PhD Candidate

McCormick, Kes, Assistant Professor

Mendoza Frödin, Paola, Course Administrator (YMP)

Miolin, Kristina, Research & Education Coordinator

Mont, Oksana, Professor

Mundaca, Luis, Assistant Professor

Neij, Lena, Professor/Director of IIIEE

Nemeskeri, Robert, PhD Candidate

Parker, Thomas, PhD Candidate

Peck, Philip, Associate Professor

Plepys, Andrius, Assistant Professor

Redzep, Sengül, Student Officer

Rodhe, Håkan, Associate Professor/Director of Educational Programmes

Smedby, Nora, PhD Candidate

Strupeit, Lars, Project Manager

Thidell, Åke, Assistant Professor

Tojo, Naoko, Associate Professor

Wahlgren, Ingela, Librarian

# Environmental Ambitions

The Institute is dedicated to practice the theory of sustainable development that we teach, and our environmental work should be characterized by continuous improvements.

The Institute was awarded the Lund University environmental certificate ("Grodan"), and during 2010 we have continued to work actively and systematically in accordance with the internal Lund University environmental management system. Our main objectives are to decrease energy consumption in the Institute building, and to manage our travelling in a more sustainable manner.

Energy efficient light bulbs are installed in all rooms, and light switches are complemented with control sensors. Offices have been equipped with thermometers

to control the temperature for a more efficient heating. The opportunities for sorting waste within the building are very good, and all staff has been informed about waste separation.

Our students' commitment and knowledge has been used in various projects within the Institute in line with our internal environmental ambitions.

We measure our climate impact due to travelling and seek to optimize it in accordance with our needs. Since 2007, the Institute purchases emission rights to compensate the air travels. We continue to exploit the possibilities to replace physical travels with virtual meetings.

## Lund University

Lund University was founded in 1666 and is today one of the largest, oldest and broadest universities in Scandinavia and is consistently ranked among the world's top 100 universities. It has an excellent academic reputation with a large number of visiting professors and international students. Lund University has evolved into a modern centre of research and higher education and now enjoys a leading position, regionally, nationally and internationally.

With eight faculties, the University's activities cover education and research in engineering, science, law, social sciences, economics, medicine, humanities, theology, fine arts, music and drama.

Around 46 000 students study at the University, which has some 6 000 employees. The majority of the University's activities are in Lund, but a number of education and research departments are based in Malmö. The University also has a growing campus in Helsingborg and a School of Aviation in Ljungbyhed.

The University has some 30 world-leading research environments. This, together with increased direct funding from the Swedish Government, allocated on the basis of competition and quality, makes Lund University Sweden's strongest research university.

Lund University is in many respects Sweden's most international higher education institution and has close

cooperation and exchange agreements with a large number of universities around the world. In addition, Lund University is a member of the prestigious research-intensive university networks Universitas 21 and the League of European Research Universities (LERU). The University is an important force in the expansive Öresund region, not least since two of Europe's largest research facilities, Max IV and ESS, will be built in Lund within the next ten years.



Fotograf: Mikael Risedal

## The Building (1909-2010)

The building that houses the International Institute for Industrial Environmental Economics was completed in 1909. It was designed by the architect Fredrik Sundbärg, and commissioned by the insurance company, Skånska Brand, to be used as their main office quarters. Several large vaults in the building, designed to safeguard important documents, bear witness to the original owners of the building. During the summer of 1995, as well as during 2003, the building was extensively renovated, and several rooms were returned to their original style.

The style of the building was inspired by Danish-Dutch neo-Renaissance, while the main staircase winds off into magnificent rooms of Jugend design. The gables and façade of the building feature red bricks, with a rich interspersion of portal figures and decorative motifs in sandstone. From its granite base to outer roofing covered with glazed, Dutch tiles, the building stands as a splendid testimony to the architectural prowess of former times.

The building is considered to be an important cultural-historical edifice, and of value to its architectural setting. It is on the city's preservation list of historical buildings.



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Tel: +46 46-222 02 00**

**The IIIIEE website contains retrievable publications and further  
information about our research and educational activities.  
[www.iiiiee.lu.se](http://www.iiiiee.lu.se)  
[iiiiee@iiiiee.lu.se](mailto:iiiiee@iiiiee.lu.se)**

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Printers: CA Andersson & Co, Malmö  
Editing: Carl Foug, IIIIEE**



**We educate** through MSc and PhD programmes, undergraduate courses, executive training, and an international youth outreach programme. All efforts target future decision makers in management and policy for sustainable development.

**We research** on policy and strategies for sustainable solutions.

**We work** at the interface between academia, private and public sectors where we articulate proactive strategies for environmental improvement in the context of sustainable development.

**We perform** collaborative case studies and demonstration projects in order to develop and disseminate new knowledge and practices.

**We transcend** traditional academic disciplinary specialisation by placing strong emphasis upon interaction with society at large and by the utilisation of synergies between various disciplines, paradigms and methodologies. The Institute's work is often action oriented and is designed so that results can be applied at local, national and global scales.

