

Program Errata

Overall program

Day	Scientific program	Time	Social program	Evening program
Sunday 8 May	Arrivals Registration	14.00-20.00		Welcome reception 18.00-20.00
Monday 9 May	Registration Opening ceremony Keynote lectures 1 EU Workshop Parallel sessions A Parallel sessions B	08.00-18.00 09.15-11.45 13.15-14.00 14.10-15.50 14.10-15.50 16.10-18.10	Guided city tour 14.00-16.00	
Tuesday 10 May	Registration Parallel keynote lectures 2 Parallel sessions C Parallel sessions D Parallel keynote lectures 3 Parallel sessions E Parallel sessions F	08.00-18.00 08.30-09.10 09.20-10.20 10.40-12.00 13.15-14.00 14.10-15.30 15.50-18.10	Guided tour of Old Linköping 09.00-12.00	
Wednesday 11 May	Registration Parallel keynote lectures 4 Parallel sessions G Parallel sessions H Professional excursion tours Cross Border Bioenergy Workshop	08.00-13.00 08.30-09.10 09.20-10.20 10.40-11.40 13.00-17.30 13.00-16.00	Boat trip on Kinda Canal 10.00-14.00	Congress Banquet 19.00-
Thursday 12 May	Registration Parallel keynote lectures 5 Parallel sessions I Parallel sessions J Parallel keynote lectures 6 Parallel sessions K Parallel sessions L	08.00-18.00 08.30-09.10 09.20-10.20 10.40-12.00 13.15-14.00 14.10-15.30 15.50-18.10	Air Force Museum 10.00-13.00 Bus tour Omberg, Vadstena 09.00-16.30	
Friday 13 May	Registration Parallel keynote lectures 7 Parallel sessions M Parallel sessions N Closing ceremony Lunch	08.00-10.00 08.30-09.10 09.20-10.40 11.00-12.00 12.05-13.30 13.30-		

Keynote sessions

1A – Monday 9 May 13.15-14.00

Global Energy Assessment

CHAIRPERSON: BJÖRN KARLSSON

Change of chairperson

A New Global Energy Agenda for a Rapidly Changing World

Prof. Thomas B. Johansson

International Institute for Industrial Environmental Economics (IIIEE), Lund University, Sweden

Parallel presentation sessions

BE-B1

Monday 9 May, 16.10-17.50

CHAIRPERSON: ANNIKA BJÖRN, LINKÖPING UNIVERSITY, SWEDEN

Paper BE0949 cancelled:

~~BE0949: Biogas Production from Agricultural Wastes in Laboratory Scale Biogas Plant~~

~~Kucukkara, Berk; Yaldiz, Osman; Sozer, Salih; Ertekin, Can
Farm Machinery Dept., Akdeniz University, Turkey~~

BE-L1

Thursday 12 May, 15.50-18.10

CHAIRPERSON: MATS EKLUND, LINKÖPING UNIVERSITY, SWEDEN

Change of presenter:

BE0520: Effect of organic loading rates (OLR) on production of methane from anaerobic digestion of vegetables waste

Babae, Azadeh; Shayegan, Jalal (presented by Kariminia, Hamid Reza)
Sharif University of Technology, Iran

BE-L2

Thursday 12 May, 15.50-17.50

CHAIRPERSON: PENJIT SRINOPHAKUN, KASSETSART UNIVERSITY, THAILAND

BE0269: An environmental assessment of the production of biodiesel from waste oil : two case studies

BE0343: Feasibility of Jatropha oil for biodiesel: Economic Analysis

BE0593: Novel Production Of Biofuels From Neem Oil

BE0950: Characterization of Waste Frying Oils Obtained from Different Facilities

Paper BE0709 and BE0086 moved from BE-N1:

BE0709: Ethanol production by *Mucor indicus* using the fungal autolysate as a nutrient supplement

Asachi, Reihaneh; Karimi, Keikhosro; Taherzadeh, Mohammad J.
School of Engineering, University of Borås, Sweden

BE0086: Yeast adaptation on the substrate straw

Kahr, Heike; Helmberger, Sara; Jäger, Alexander G.
BUT, FH Wels, Austria

BE-N1

Friday 13 May, 11.00-11.40

CHAIRPERSON: EDUARDO VON SPERLING, FEDERAL UNIVERSITY OF MINAS GERAIS, BRAZIL

BE0121: Improvements in Bioethanol Production Process from Straw

BE0510: Improvement of enzymatic hydrolysis of rice straw by N-methylmorpholine-N-oxide (NMMO) pretreatment

Paper BE0709 and BE0086 moved to BE-L2

EEE-B1

Monday 9 May, 16.10-17.50

CHAIRPERSON: STAFFAN ANDERSSON, UMEÅ UNIVERSITY, SWEDEN

Paper EEE0482 cancelled:

~~EEE0482: Examining the effect of heat storage in a cogeneration system~~

~~Salchi, G.R.; Taghdiri, E.; Deldadeh, D.
Department of Mechanical Engineering, Islamic Azad University, Iran~~

EEE-C1

Tuesday 10 May, 09.20-10.20

CHAIRPERSON: LOUISE TRYGG, LINKÖPING UNIVERSITY, SWEDEN

Change of chairperson

EEE-M1

Friday 13 May, 09.20-10.20

CHAIRPERSON: MATS SÖDERSTRÖM, LINKÖPING UNIVERSITY, SWEDEN

Change of chairperson

Session time updated

IEE-A1

Monday 9 May, 14.10-15.30

CHAIRPERSON: SIMON HARVEY, CHALMERS UNIVERSITY OF TECHNOLOGY, SWEDEN

Paper IEE0483 cancelled:

~~IEE0483: Thermoeconomic optimization of absorption chiller cycle~~

~~Mashayekh, H.; Salchi, G.R.; Taghdiri, E.; Hamed, M.H.
Department of Mechanical Engineering, Islamic Azad University, Iran~~

IEE-F1

Tuesday 10 May, 15.50-18.10

CHAIRPERSON: PATRIK THOLLANDER, LINKÖPING UNIVERSITY, SWEDEN

IEE0075: Possibilities to implement pinch analysis in the steel industry – a case study at SSAB EMEA in Luleå

IEE0134: Energy efficient dual command cycles in Automated Storage and Retrieval Systems

IEE0283: Energy system optimization for a scrap based steel plant using mixed integer linear programming

IEE0732: Environmental system effects when including scrap preheating and surface cleaning in steel making routes

IEE01075: Potential of fossil and renewable CHP technology to reduce CO₂ emissions in the German industry sector

IEE1224: Energy efficiency opportunities within the powder coating industry

Paper IEE0594 moved from IEE-M1:

IEE0594: Case Study and Analysis of the Production Processes in a Steel Factory in Jordan

Al Asfar, Jamil J.; Salim, Ashraf
Mechanical Engineering Department, The University of Jordan, Jordan

IEE-M1

Friday 13 May, 9.20-10.40

CHAIRPERSON: LARS J NILSSON, LUND UNIVERSITY, SWEDEN

Paper IEE0594 moved to IEE-F1

LEA-N1

Friday 13 May, 11.00-11.40

CHAIRPERSON: KIRSTEN GRAM-HANSEN, AALBORG UNIVERSITY, DENMARK

Session time updated

PI-B1

Monday 9 May, 16.10-18.10

CHAIRPERSON: ELIAS HINCKLEY, GEORGETOWN UNIVERSITY, USA

Paper P10897 moved from PI-N1:

P10897: Technical feasibility of integration of renewable energies in the EU

Szabo, Marta
Renewable Energy Unit, European Commission, DG JRC, Institute of Energy, Italy

P10064: Development of the Sustainable Technology Balance Sheet (STBS) - A generic method to assess the sustainability of renewable energy technologies

P10326: The SIMPLE methodology for supporting innovations in the field of renewable energy and energy efficiency

P10852: Tools and mechanisms fostering EU GCC cooperation on Energy Efficiency

P10099: The emerging bio-economy in Europe: Exploring the key governance challenges

P11142: Tools for Sustainable Energy Engineering

PI-F1

Tuesday 10 May, 15.50-17.50

CHAIRPERSON: THOMAS B. JOHANSSON, LUND UNIVERSITY, SWEDEN

Paper P10181 cancelled:

~~P10181: Have to Re-examine Renewable Energy~~

~~Yong, Chen; Haoran, Yuan
Guangzhou Branch Academy, Chinese Academy of Sciences, China~~

PI-G1

Wednesday 11 May, 09.20-10.20

CHAIRPERSON: JENNY IVNER, LINKÖPING UNIVERSITY, SWEDEN

P10672: Energy and sustainability: public perspectives on what are the issues, who should address them and how

Paper P10737 cancelled:

~~P10737: Performance of Jatropha biodiesel production and its environmental and socio-economic impacts - A case study in Southern India~~

~~Axelsson, Lisa; Franzén, Maria; Ostwald, Madelene; Berendes, Göran; Ravindranath, N.H.
Centre for climate science and policy research, Linköping University, Sweden~~

Paper P10754 moved from PI-I1:

P10754: Potential Renewable Bio-energy Production from Canadian Agriculture

~~Liu, Tingting; McConkey, Brian; Smith, Stephen; MacGregor, Bob; Huffman, Ted
Semi-arid Prairie Agricultural Research Centre, Agriculture and Agri-Food Canada~~

P10472: PURE - Public Understanding of Renewable Energy

PI-I1

Thursday 12 May, 09.20-10.20

CHAIRPERSON: OLOF HJELM, LINKÖPING UNIVERSITY, SWEDEN

CANCELLED

Paper P10754 moved to PI-G1

Paper P10728 and P10927 cancelled:

~~P10728: The Chinese Grain for Green Program - assessing the sequestered carbon from the land reform~~

~~Ostwald, Madelene; Moberg, Jesper; Persson, Martin; Xu, Jintao
Centre for climate science and policy research, Linköping University, Sweden~~

~~P10927: Quantifying CO₂ emissions as a function of energy, economy and population indicators in the EU countries and Turkey~~

~~Ertekin, Can; Alta, Deniz; Evrendilek, Fatih
Fac. of Agriculture, Dept. of Farm Machinery, Akdeniz University, Turkey~~

PI-N1

Friday 13 May, 11.00-12.00

CHAIRPERSON: THOMAS B. JOHANSSON, LUND UNIVERSITY, SWEDEN

Paper P10897 moved to PI-B1

Session time updated

PV-F1

Tuesday 10 May, 15.50-17.30

CHAIRPERSON: ARGYRIOS VARONIDES, UNIVERSITY OF SCRANTON, USA

Paper P10713 cancelled:

~~P10713: New cadmium sulfide nanomaterial for heterogeneous organic photovoltaic cells~~

~~Rohovec, Jan; Tousekova, Jana; Tousek, Jiri; Schauer, Frantisek; Kuritka, Ivo
Institute of Geology AS CR, v. v. i., Czech Republic~~

PV-K1

Thursday 12 May, 14.10-15.30

CHAIRPERSON: LARRY KAZMERSKI, NATIONAL RENEWABLE ENERGY LABORATORY, USA

P10142: Photovoltaic for Rural Development: A study of policy impact and scope of market development in South Asian Region

P10733: Case Study: Modelling and sizing stand-alone PV systems for powering mobile phone stations in Libya

P10753: Designing a Photovoltaic Solar Energy System for a Commercial Building. Case Study: Rosa Park Hotel in Khartoum-Sudan

Paper P10870 moved from PV-M1:

P10870: Analytical model and experimental validation of the heat transfer and the induced flow in a PV cooling duct in environmental conditions

~~Mazón, R.; Káiser, A.S.; Zamora, B.; García, J.R.; Vera, F.
Thermal and Fluid Engineering Department, Technical University of Cartagena, Spain~~

PV-M1

Friday 13 May, 09.20-10.40

CHAIRPERSON: LARRY KAZMERSKI, NATIONAL RENEWABLE ENERGY LABORATORY, USA

Paper P10870 moved to PV-K1

Papers P10034, P10247 and P11018 moved to PV-N1

Papers P10740, P10748, P10959 and P10695 moved from PV-N1:

P10740: Improving the performance of solar panels by the use of phase-change materials

~~Biwole, Pascal; Eclache, Pierre; Kuznik, Frederic
Mathematics and Interactions, J-A. Dieudonné Lab., University of Nice, France~~

P10748: Assessing the impact of micro generation in radial low voltage distribution networks taking into consideration the uncertainty

~~Gomes, Alvaro; Pires, Luís~~

Electrical Engineering and Computers,
University of Coimbra / INESC Coimbra,
Portugal

**PV0959: Optimal Sizing of an
Islanded Micro-grid for an area in
north-west Iran Using Particle Swarm
Optimization Based on Reliability
Concept**

Hassanzadehfard, H.; Moghaddas-Tafreshi,
S.M.; Hakimi, S.M.
K.N.Toosi University, Iran

**PV0695: Polymer solar cells in
photovoltaic energy conversion**

~~Tvingstedt, Kristofer~~; Andersson, Viktor;
Andersson, Mattias; Müller, Christian;
Vandewal, Koen; Zhang, Fengling;
Andersson, Mats; Inganäs, Olle
Department of Physics, Chemistry and Biology
(IFM), Linköping University, Sweden

PV-N1

Friday 13 May, 11.00-12.00

CHAIRPERSON: ALVARO GOMES, UNIVERSITY
OF COIMBRA, PORTUGAL

Papers **PV0740, PV0748, PV0959 and PV0695**
moved to **PV-M1**

Papers **PV0034, PV0247 and PV1018** moved
from **PV-M1**:

**PV0034: Evaluation of the Solar
Hybrid System for Rural Schools in
Sabah, Malaysia**

Mahmud, Abdul Muhaimin
Public Works Department of Malaysia,
Malaysia

**PV0247: Analysis of dust losses in
photovoltaic modules**

Zorrilla-Casanova, J.; Piliouge, M.;
Carretero, J.; Bernaola, P.; Carpena, P.;
Mora-López, L.; Sidrach-de-Cardona, M.
Applied physics II, University of Málaga,
Spain

**PV1018: An experimental study of
combining a photovoltaic system with
a heating system**

Hosseini, R.; ~~Hosseini, N.~~;
Khorasanizadeh, H.
Kashan University, Iran

SCR-D1

Tuesday 10 May, 10.40-11.40

CHAIRPERSON: DAG HENNING, OPTENSYS,
SWEDEN

**SCR0863: Evaluating the greenhouse
gas impact from biomass gasification
systems in industrial clusters –
methodology and examples**

**SCR0893: Application of CHP Gas
Engine Plant for a Detergent Factory:
Energy and Environmental Aspects**

Paper **SCR0399** cancelled:

~~**SCR0399: Exploring the sustainability
of industrial production and energy
generation with a model system**~~

~~Kotecha, Prakash R.; Diwekar, Urmila M.;
Cabezas, Heriberto
Office of Research and Development, U.S.
Environmental Protection Agency, USA~~

Paper **SCR0347** moved from **SCR-F1**:

**SCR0347: Combined Optimal
Placement of Solar, Wind and Fuel
cell Based DGs Using AHP**

Singh, A.K.; Parida, S.K.
Department of Electrical Engineering, Indian
Institute of Technology Patna, India

**SCR0418: Natural Ionizing System of
Electrical Protection against
Atmospheric Discharges (Lightning)**

SCR-F1

Tuesday 10 May, 15.50-18.10

CHAIRPERSON: ZVONIMIR GUZOVIC,
UNIVERSITY OF ZAGREB, CROATIA

Paper **SCR0347** moved to **SCR-D1**

Paper **SCR0031** added:

**SCR0031: Application of mechanical
heat treatment for the recovery of
plastics as energy resource**

Tseng, Jyi-Yeong; Hung, Zang-Sie; Chang,
Chia-Chi; Wang, Yen-Chi; Ji, Dar-Ren; Ko,
Chun-Han; Chen, Yi-Hung; Shie, Je-Lueng;
Li, Yuan-Shen; Chang, Chungfang Ho;
Wang, Shi Guan; Liu, Kuang Wei; Tseng,
Shu-Lin; Chang, Ching-Yuan (presented by
Chiang, Sheng-Wei)
Graduate Institute of Environmental
Engineering, National Taiwan University,
Taiwan

**SCR0430: Integrated waste manage-
ment as a mean to promote renewable
energy**

**SCR0567: Determination of the
Operating Regimes of CHP Turbines
with Stage-wise Heating of District
Heating System Water**

**SCR0607: Potential for low-
temperature energy usage at power
plant's cold end in order to increase
energy efficiency**

**SCR0710: An Evaluation of Internal
Combustion Engines as the Prime
Movers in CHP Systems**

**SCR0937: Air gasification of palm
empty fruit bunch in a fluidized bed
gasifier using various bed materials**

Paper **SCR0997** moved to **SCR-F2**

SCR-F2

Tuesday 10 May, 15.50-17.50

CHAIRPERSON: JACQUES KIMMAN, SOUTH
UNIVERSITY, THE NETHERLANDS

**SCR0173: Future-Proofed Design for
Sustainable Urban Settlements:
Integrating Futures Thinking into the
Energy Performance of Housing
Developments**

**SCR0769: Space-time of solar radiation
as guiding principle for energy and
materials choices**

**SCR0772: Energy Efficient Building in
Third Climatic Region of Turkey**

Paper **SCR1053** cancelled:

~~**SCR1053: Urban materials for
comfortable open spaces**~~

~~Dessi, Valentina
BEST, Politecnico di Milano, Italy~~

**SCR1149: The Franklin district of
Mulhouse: first French experience of
low energy building renovation in a
historic area of the city centre**

**SCR1223: Energy Efficient
Communities – A Collaboration
Project of the International Energy
Agency IEA**

Paper **SCR0997** moved from **SCR-F1**:

**SCR0997: Experimental investigation
of the use of lignite ash for roof solar
cooling**

Vardoulakis, Eftychios; ~~Karamanis,
Dimitris~~
Environmental & Natural Resources
Management, University of Ioannina, Greece

STH-C1

Tuesday 10 May, 09.20-10.20

CHAIRPERSON: DOROTA WÓJCICKA-MIGASIUK,
LUBLIN UNIVERSITY OF TECHNOLOGY,
POLAND

Paper **STH1000** cancelled:

~~**STH1000: Modeling of the Seawater
Greenhouse Systems**~~

~~Salchi, G.R.; Ahmadpour, M.; Khoshnazar,
H.
Mechanical Engineering, Islamic Azad
University, Iran~~

STH-H1

Wednesday 11 May, 10.40-11.40

CHAIRPERSON: EWA ZAWILSKA,
MANGOSUTHU UNIVERSITY OF
TECHNOLOGY, SOUTH AFRICA

Paper **STH0932** cancelled:

~~**STH0932: Theoretical study of the
aspect ratio of a solar still with double
slopes**~~

~~Madhlopa, A.; Clarke, J.A.
Department of Mechanical Engineering,
University of Strathclyde, United Kingdom~~