

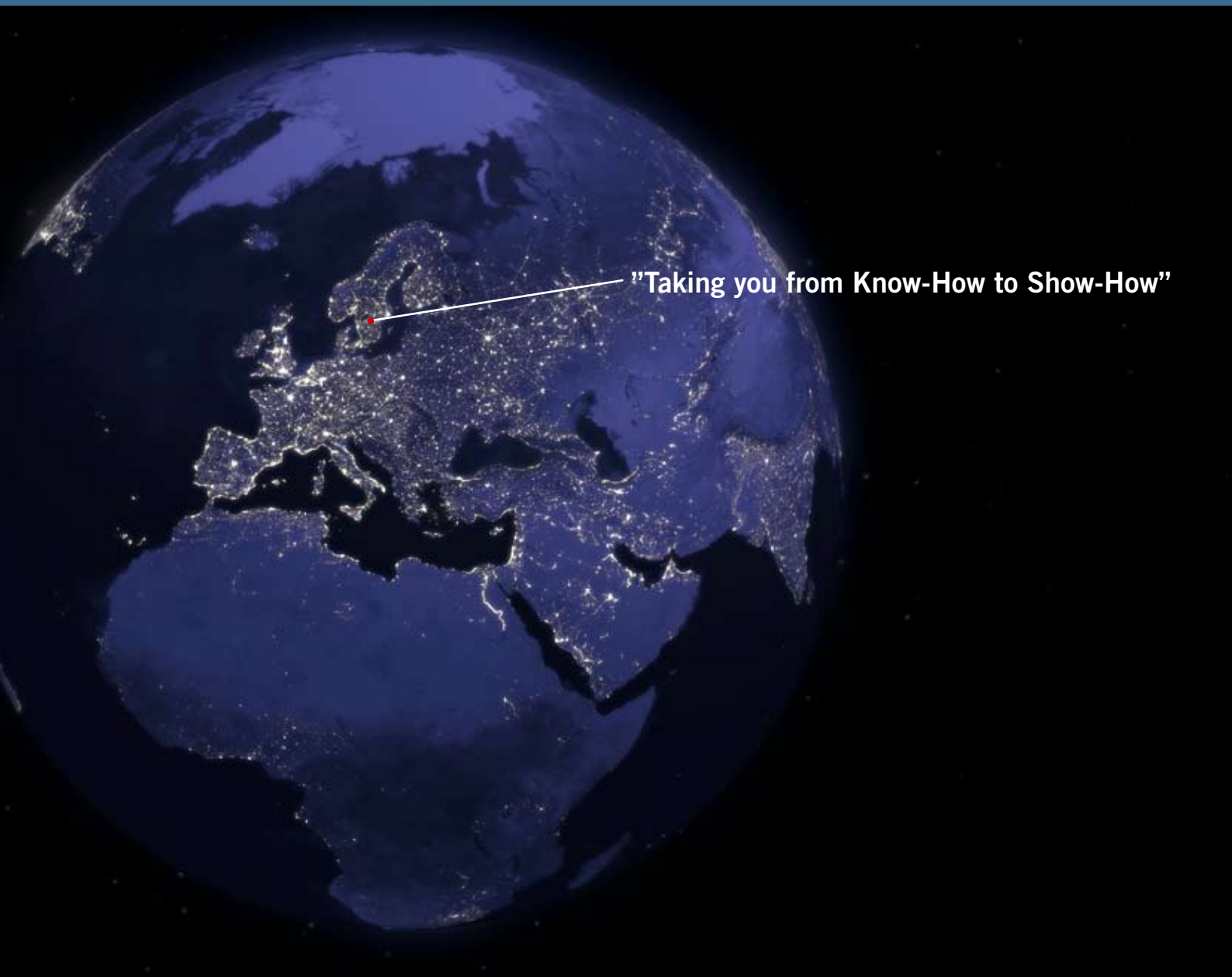
WORLD BIOENERGY 2008

Conference & Exhibition on Biomass for Energy

27 - 29 MAY 2008, JÖNKÖPING - SWEDEN

www.worldbioenergy.se

INVITATION & PROGRAMME



"Taking you from Know-How to Show-How"

SVEBIO

 **Elmia**

WELCOME TO WORLD BIOENERGY 2008

Dear Visitor,

Today we know that conditions for life on this planet are changing rapidly. Man-made global warming has become a major issue on the international agenda. The impact of human activity is multiple and complex; it ultimately endangers ecosystems and conditions for life.

The necessity to break the link between economic growth and the negative impact on the environment is the challenge we are facing today. I believe that it is possible that growth can be made sustainable. The new technology is already

here, and it is being developed continuously by research and other studies. Modern bioenergy technology is a good example of this promising development. World Bioenergy brings together global expertise and know-how, and aims to show how we can implement a transition to environmentally sustainable and renewable energy sources.

Welcome to World Bioenergy 2008!

His Majesty King Carl XVI Gustaf of Sweden



Photo: Eva-Marie Rundquist

His Majesty King Carl XVI Gustaf of Sweden,
Patron of World Bioenergy 2008

Dear Colleague,

The coming decades will see trillions of dollars, euros and renminbis invested into alternative energy systems to provide secure energy without driving global climate change. During this decade, bioenergy will be the largest source of such energy. Modern bioenergy has also the greatest potential to increase the availability of electricity, heat and cooling – and most challenging biofuels substituting oil for transport – in this period.

In the mornings at World Bioenergy 2008, corporate and academic experts will let you know how bioenergy creates a secure energy supply. During the afternoons – as well as pre- and post conference tours – you will see real bioenergy systems in operation. The people operating systems will be there to discuss their experiences with you. At the fair, next to the conference, suppliers of fuels, equipment and services will show what they have to offer. This unique “Taking you from Know-How to Show-How” concept combines international conferences with field trips, trade fair and social mixers into what was described as a “bubbling fluidized bed of knowledge and networks”.

We would like to provide the best possible opportunity to get into the bioenergy business in a

week. Some have claimed to have arrived with a vague notion about bioenergy and left with the essentials of a business plan. As the financial industry is preparing itself, World Bioenergy 2008 will be an event empowering financial actors to deal with bioenergy.

For those of you already involved in the industry, World Bioenergy has evolved into the meeting place of global networks. Several such networks are co-ordinating with us to host meetings during the World Bioenergy 2008. The previous two World Bioenergy conferences have gained the reputation of exceptional industrial focus and a conference dinner where participants have proven that this is an industry worth joining.

At World Bioenergy 2008 the World Bioenergy Association will invite a growing number of members, creating a global organisation ready to provide inputs to the efforts global institutions guiding global energy and climate developments. At World Bioenergy you learn, network and deal with the people that not only know, but do.

Welcome to World Bioenergy 2008!

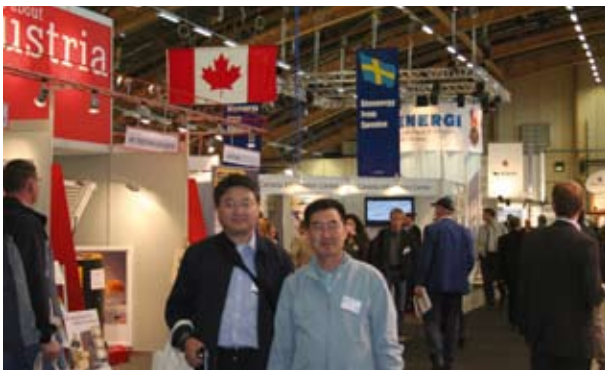
Prof. Tomas Käberger, Conference chairperson



Photo: Bildbyrån Svensson & Co

Prof. Tomas Käberger,
Conference chairperson,
World Bioenergy 2008

“Taking you from Know-How to Show-How”

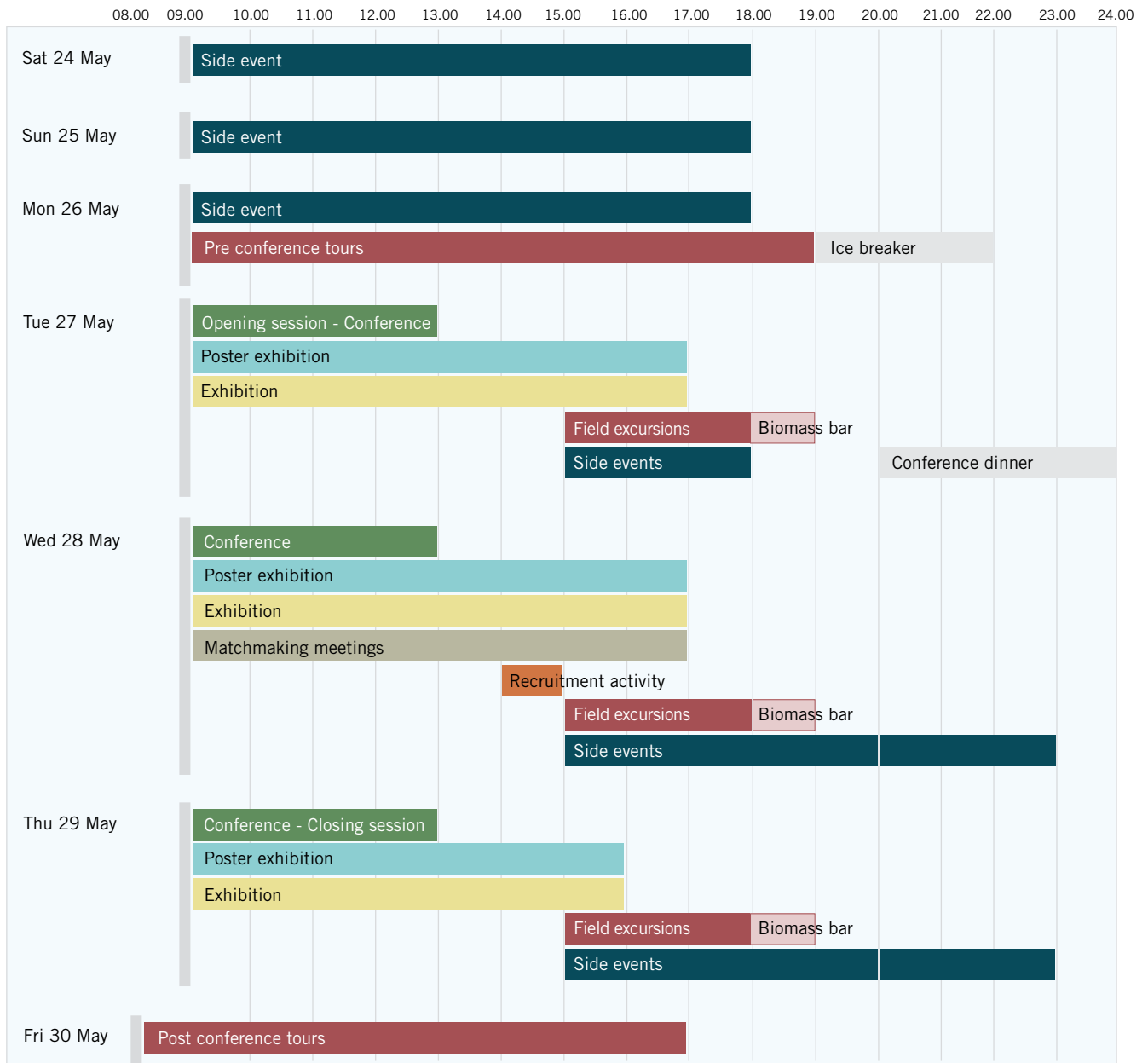


Bundling of forest residues - spruce branches • More than seventy sites will be visited at study tours and excursions. • The new heat and power at Torsvik in Jönköping uses municipal waste as fuel. • Saw dust for production of pellets. • The exhibition is a meeting point for bioenergy business from all continents. • Biogas is widely used as transport fuel in Sweden.

PROGRAMME OUTLINE

"TAKING YOU FROM KNOW-HOW TO SHOW-HOW"

Organised every second year this major global bioenergy get-together is based on the unique "Taking you from Know-How to Show-How" concept, combining conference sessions, field excursions and tradeshow into one comprehensive event. This way academic research and development blend seamlessly with commercial experience providing a better business context. The overall purpose of World Bioenergy 2008 is to promote the implementation of bioenergy technologies. Compared to conventional bioenergy conferences, World Bioenergy places much greater significance on the field tours integrating them fully into the main programme. Why? Simply because when it comes to putting bioenergy and its potential into concrete context, actions speak far louder than words.



The registration/information desks are open the following hours:

Monday 16.00 - 22.00	Tuesday 08.00 - 16.00	Wednesday 08.00 - 16.00	Thursday 08.00 - 16.00
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PRE- AND POST CONFERENCE TRANSFER TOURS, 26 MAY AND 30 MAY

A distinctive feature of World Bioenergy are the popular pre- and post conference transfer tours. Arranged on the 26 and 30 May they offer very convenient, cost and time effective travel options from airports in Stockholm and Copenhagen to Jönköping and back.

Arlanda international airport is located north of Stockholm. Most bus tours will go west of Stockholm, and will not pass through Stockholm. Kastrup international airport is located south of Copenhagen, near to the bridge over Öresund.

In addition, the pre- and post conference transfer tours provide you with an exclusive opportunity to visit a selection of modern bioenergy facilities along the road to and from the conference in Jönköping.

Participants arriving at Stockholm Arlanda Airport or Copenhagen Kastrup Airport 26 May or earlier, can choose a pre conference tour and arrive in Jönköping the evening before the conference starts. Buses will leave Arlanda and Kastrup mid-morning.

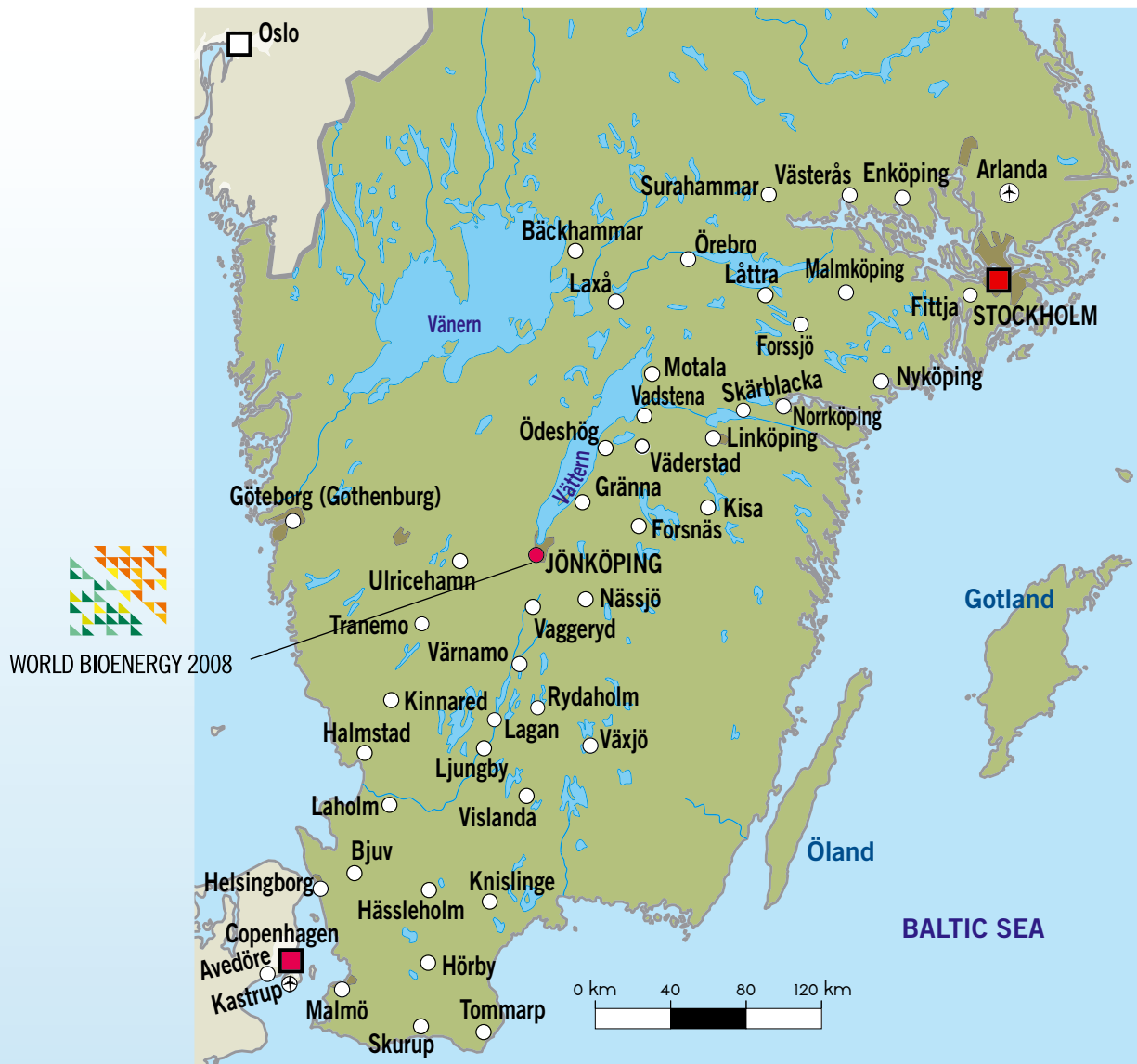
After the conference, 30 May, post conference tours will take

different routes back to Stockholm Arlanda Airport or Copenhagen Kastrup Airport and arrive in time for late afternoon departures.

These tours represent a diversity and range of bioenergy solutions used in Sweden today. They present exceptional "added value" opportunities to see how everything works in real life and are an ideal complement to the daily field excursions available during the conference itself. For example the buses will stop at plants for heat and power generation (CHP) using different biofuels, energy crop plantations, small town district heating, ethanol and biodiesel production, biogas production and sawmill with integrated pellets production.

Please note that these tours are optional and not included in the conference fee. The pre- and post conference tour itineraries are subject to change. For details and updated programmes consult the website www.worldbioenergy.se.

For further information, please contact Mr Kjell Andersson, Svebio, +46 (0)8 441 70 87, kjell.andersson@svebio.se.



Arlanda international airport is located north of Stockholm. Most bus tours will go west of Stockholm, and will not pass through Stockholm. Kastrup international airport is located south of Copenhagen, near to the bridge over Öresund.

PRE CONFERENCE TOURS

A1. ARLANDA – JÖNKÖPING

(MIXED)

Leaving 09.00 AM

Enköping, combined heat and power plant, willow plantation used for waste water treatment and energy production. *Katrineholm/Forssjö*, pellets plant integrated with saw mill, *Linköping*, biogas production and use for public transport. *Ödeshög*, small heat plant using wood chips.

A2. ARLANDA – JÖNKÖPING

(MIXED)

Leaving 10.00 AM

Enköping, combined heat and power plant, willow plantation used for wastewater treatment and energy production. *Katrineholm*, pellets plant integrated with saw mill. *Norrköping*, ethanol plant using biomass based steam from nearby heat and power plant as process energy. Biogas plant using distiller's grain from the ethanol plant.

A3. ARLANDA – JÖNKÖPING

(AGRICULTURAL, SMALL SCALE)

Leaving 09.00 AM

Västerås, biogas production from ley crops, manure and waste. Near *Västerås*: willow plantations – large project to plant new areas with willows. *Lättra*, briquette production on farm using reed canary grass, straw and wood shavings as raw materials, straw boiler on farm. *Linköping/Tolefors*, small scale rape seed biodiesel production.

A4. ARLANDA – JÖNKÖPING

(FOREST INDUSTRY)

Leaving 09.00 AM

Norrköping, large papermill using bark and other biomass residues for energy production (heat and power). Handling of sludge from paper mill for soil production. Production of solid biomass fuels for nearby heat plant. *Kisa*, district heating from boiler at saw mill. *Forsnäs*, large pellets factory using saw dust.



Saw dust is the main raw material for pellets production in Sweden.

A5. ARLANDA – JÖNKÖPING

(PEAT)

Leaving 09.00 AM

Surahammar, restored peat production area with four different stages of wetland and forest plantation. District heating plant using peat as fuel. Peat production at peat bog. *Örebro*, large heat and power plant using peat and other biomass fuels. *Omberg*, large peat production area and nearby bird sanctuary.

A6. ARLANDA – JÖNKÖPING

(BIOFUELS FOR TRANSPORT)

Leaving 09.00 AM

Stockholm and *Södertälje*, biofuels for transport in Stockholm, ethanol and biogas buses. *Norrköping* and *Linköping*, ethanol and biogas production and use of biogas for buses, cars and train. *Linköping/Tolefors*, small scale production of biodiesel from rape seed and recycled vegetable oil.

A7. ARLANDA – JÖNKÖPING

(SOLID FUELS)

Leaving 09.00 AM

Västerås, wood fuel handling at large combined heat and power plant. *Bäckhammar*, pellets production from lignine at pulp mill. One more stop will be planned on this trip.

B1. KASTRUP – JÖNKÖPING

(HEAT PRODUCTION)

Leaving 09.00 AM

Copenhagen/Avedöre, very large heat and power plant using straw pellets. *Hörby*, small district heating plant using wood-chips. *Ljungby*, district heating plant (CHP) using municipal waste and forest fuels.

B2. KASTRUP – JÖNKÖPING

(AGRICULTURAL)

Leaving 09.00 AM

Skurup, small district heating plant using straw. *Tommarp*, pellets production using waste from grain and seed handling. *Knislinge*, small scale biodiesel production from rape seed oil. *Ljungby*, small scale pellets production.

B3. KASTRUP – JÖNKÖPING

(BIOGAS)

Leaving 09.00 AM

Malmö/Oxie, small scale biogas production on farm. *Bjuv/Wrams Gunnarstorp*, large biogas plant using manure from pigs and food residues from nearby large food industry. Biogas fed into the natural gas grid. *Laholm*, Sweden's oldest biogas plant in small city. Upgrading of biogas for transport will also be shown.

All tour itineraries are subject to change, consult the website www.worldbioenergy.se for an updated programme.

POST CONFERENCE TOURS

C1. JÖNKÖPING – ARLANDA

(MIXED)

Leaving 08.00 AM

Vadstena, small district heating plant using wood fuels. *Linköping*, large CHP using municipal waste. *Linköping* or *Norrköping*, biogas production and use. *Nyköping*, handling of fuels – recovered wood at middle size heat and power plant.

C2. JÖNKÖPING – ARLANDA

(AGRICULTURAL, SMALL SCALE)

Leaving 08.00 AM

Linköping/Tolefors, Small scale biodiesel production. Straw heating on farm. Farmer owned small heat plant. Willow plantations.

C3. JÖNKÖPING – ARLANDA

(MIXED, WESTERLY ROUTE)

Leaving 08.00 AM

Motala, newly built heat and power plant with small power production using wood fuels. *Laxå*, large pellets factory. One more stop will be planned on this tour.

D1. JÖNKÖPING – KASTRUP

(HEAT AND PELLETS)

Leaving 08.00 AM

Kinnared, large new pellets factory. *Halmstad*, new CHP using woodchips. *Helsingborg*, large CHP using imported pellets (Canada) and natural gas. Large pellets storage in the harbour.

D2. JÖNKÖPING – KASTRUP

(HEAT AND POWER PRODUCTION)

Leaving 08.00 AM

Växjö, large scale heat and power plant. *Vislanda*, small heat plant in small community using wood chips. *Hässleholm*, heat and power plant using municipal waste and wood fuels.

All tour itineraries are subject to change, consult the website www.worldbioenergy.se for an updated programme.

E1. JÖNKÖPING – PITEÅ – ARLANDA

PITEÅ

Solander Science Park in Piteå with the black liquor gasifier, a planned pilot plant for biodiesel production from tall oil, the ETC R&D facilities and Smurfit Kappa Kraftliner Piteå new biomass boiler.

Limited participation: 30 persons (minimum 8)

Travel plan:

29 May, 2008: flight from Jönköping at 18.55 via Stockholm Arlanda to Luleå. To be booked at www.skyways.se and SAS www.sas.se. Transfer by bus to Piteå.

30 May, 2008: flight from Luleå at 18.45 to Arlanda 20.00.

Transport and accommodation are to be booked by the participants at their own expense.

Please contact:

Carina Wiklund at Piteå Travel Agency Sweden, Group department, phone +46 (0)911 55 90 20, fax +46 (0)911 55 90 90, email carina.wiklund@resesaljarna.se, www.resesaljarna.se.

E2. JÖNKÖPING – ÖRNSKÖLDSEVIK – ARLANDA

ÖRNSKÖLDSEVIK

Processum Biorefinery Initiative in Örnsköldsvik presents the Ethanol Pilot Plant; production facilities for dissolving cellulose, lignosulphonate, ethanol and derivatives and biogas including MoRe Research R&D facilities and the new site-integrated biomass power plant.

Limited participation: 30 persons (minimum 8)

Travel plan:

29 May, 2008: flight from Jönköping at 16.30 via Stockholm Arlanda to Örnsköldsvik. To be booked at www.skyways.se.

30 May, 2008: flight from Örnsköldsvik at 18.10 to Arlanda 19.10.

Transport and accommodation are to be booked by the participants at their own expense.

Please contact: Carina Wiklund at Piteå Travel Agency Sweden, Group department, phone +46 (0)911 55 90 20, fax +46 (0)911 55 90 90, e-mail carina.wiklund@resesaljarna.se, www.resesaljarna.se.



Rape field in bloom at the end of May. Rape seed is the major crop for biodiesel in northern Europe.

Photo: Lantmännen

DAILY FIELD EXCURSIONS, 27 - 29 MAY

The Daily field excursions are an integral part of the conference programme and included in the conference fee. These bus trips take the participants out to real life operations at bioenergy sites of different kinds. You have the option to choose of several separate excursion trips, all of which are in the close vicinity of Jönköping.

After the excursions all three conference days you are warmly invited to the joint Biomass bar (17.00-19.00 hrs) at the Elmia conference venue. Here you can discuss the experiences of the various trips with your fellow delegates and have a light meal in a relaxed environment.

For further information about the Daily field excursions, please contact Mr. Lars-Erik Larsson, Svebio, phone: +46-(0)8-4417088, e-mail: lars-erik.larsson@svebio.se.

Please note that the programme is subject to change depending on the number of registrations.

FOREST ENERGY (A), 15.00 - 18.00

This excursion will present practical production of biofuels in the forest. One or several stops will be made at sites with whole tree harvest in young stands, logging residue handling, such as bundling, or on-site chipping where the forest fuel is processed into a more homogenous fuel in the forest for improved logistics.

ENERGY FROM AGRICULTURE (B), 14.00 - 18.00

"Energy from agriculture" will show salix (fast growing energy crops) and hemp plantations and the production of briquettes from hemp. A visit to a large scale compost plant where the compost will be used to manure arable land.

HEAT AND POWER (C), 15.00 - 18.00

The participants will visit the CHP plant at Munksjö industry in Jönköping. This plant is fuelled with wood-powder. The fuel is delivered both in containers and as bulk.

In Nässjö a relatively small CHP with biomass as fuel will be presented.

MUNICIPAL WASTE FOR ENERGY (D), 15.00 - 18.00

The combined heat and powerplant (CHP) at Torsvik is using sorted municipal waste as fuel. The plant was taken into production in 2006 and heat is used in the district heating grid in Jönköping, about 10 km away.

BIOGAS (E), 15.00 - 18.00

Biogas production in Jönköping is carried out in two forms – as fermentation in the municipality waste water system and as landfill gas. The gas from the waste water is used for cars and a filling station is located close to the plant. Both private car owners and public utility vehicles use this fuel.

The gas from the land-fill is converted into electricity and heat by two diesel engines at the Ryhov hospital.

SMALL AND MEDIUM SCALE PELLETS USE (F), 15.00 - 18.00

This field excursion will show how pellets can be used as a competitive fuel for heating both small scale residential houses and medium scale premises. In this system a special type of silo containers are filled at the pellet plant and transported to the customer where they are raised and exchanged.

In Jönköping five communities have a joint exhibition of modern residential heating with pellet boilers, stoves and combinations of pellets and solar panel heating.

SMALL SCALE PELLETS PRODUCTION (G), 15.00 - 18.00

On this excursion the participants will see one small scale pellet production unit at a wood processing industry. It has the production capacity of around 500 kg of pellets per hour. Also the logistics of pellets will be displayed as either the bulk transportation system and/or bagging of pellets in small bags for residential customers.

LARGE SCALE PELLETS PRODUCTION (H), 15.00 - 18.00

This field excursion will visit a large scale pellet production plant. Here, sawdust from a number of sawmills in the area is processed into pellets for small-, medium-, and large scale customers. The participants will be shown how the raw material is received, dried, ground into suitable fractions and pressed into pellets. A bagging line for small bags to residential customers will be shown.

SOLAR ENERGY AND COMBINED SOLAR BIOENERGY SYSTEMS (I), 15.00 - 18.00

A permanent exhibition of different solutions of renewable energy for family houses will be visited together with a practical example with combined solar/bioenergy system in a hospital.

ENERGY CONSERVATION AND LOW ENERGY HOUSES (J), 15.00 - 18.00

New buildings will be built with more and more energy effective solutions. The field excursion will visit such an area outside the district heating grid where the demand of energy has been minimised.

PEAT HARVESTING SYSTEMS (K), 15.00 - 18.00

Peat is often used together with woodchips in the district heating systems and the study tour will visit a peat production area south of Jönköping.

All tour itineraries are subject to change, consult the website www.worldbioenergy.se for an updated programme.

Opening Session

- 08.00 Registration opens
- 09.15 Introduction, Prof. Tomas Kåberger, Conference chairperson World Bioenergy 2008, Sweden
- Welcome address and opening, H.R.H. Crown Princess Victoria of Sweden
- Swedish climate strategy and the role of bioenergy, Ms. Maud Olofsson, Minister for Enterprise and Energy, Deputy Prime Minister, Sweden
- The role of bioenergy in combatting climate change, Mr. Alfonso Gonzalez Finat, Principal Advisor, EU Commission DG TREN
- Sugar, ethanol and bioelectricity targets for Brazil, Mr. Marcos Sawaya Jank, President, UNICA, Brazil
- The leading solid biofuel producer in the world, Mr. Matti Hilli, Managing Director, Vapo Group, Finland
- U.S. biofuel development, Mr. Paul Dickerson, U.S. Department of Energy
- Perspectives for development of renewable energy in Poland and cooperation with Sweden, Mr. Waldemar Pawlak, Minister of Economy, Deputy Prime Minister, Poland
- World Bioenergy Association, Mr. Kent Nyström, President, Swedish Bioenergy Association, Sweden

11.00 Coffee

<p>11.20 - Session A US - Sweden bioenergy cooperation</p> <p>Chairpersons: H.E. Michael M. Wood, U.S. Embassy Stockholm & Björn Telenius, Ministry for Enterprise & Energy, Sweden</p> <p>Introduction H.E. Michael M. Wood, U.S. Ambassador to Sweden</p> <p>Introduction Björn Telenius, Ministry for Enterprise & Energy, Sweden</p> <p>Michigan and Sweden - Cooperation on bioenergy can meet challenges for our auto and forest industries Douglas G. Parks, Michigan Economic Development Corporation MEDC, U.S.</p> <p>Engine solutions for any kind of biofuel Rolf Willkrans, AB Volvo, Sweden</p> <p>Black liquor gasification in Michigan Kelvin Smyth, NewPage Corp., U.S.</p> <p>DoE Programs Leslie Drogin, Department of Energy, U.S.</p> <p>Swedish perspectives on bioenergy cooperation with the U.S. Lars Guldbrand, Swedish Energy Agency, Sweden</p> <p>Brief presentations of U.S. participating companies Ambassador Michael M. Wood</p> <p>Brief presentations of Swedish participating companies Dr. Björn Telenius</p>	<p>11.20 - Session B Visions, policy & planning</p> <p>Chairpersons: Christiane Egger O.Ö. Energiesparverband, Austria & Kees Kwant, SenterNovem, Netherlands Agency for Innovations and Sustainability</p> <p>What explains and is explained by the current development of biomass power generation under the CDM in developing countries Wathanyu Amatayakul, Chalmers University of Technology, Sweden</p> <p>National biomass action plans: Effective coordinators of bioenergy development? Niina Kautto, European Commission, Joint Research Centre, Italy</p> <p>Biomass - positions on sustainability criteria Mia Nordström, Vattenfall Power Consultant, Sweden</p> <p>The Swedish fuel pellets industry: Production, market and standardization Jonas Höglund, Swedish University of Agricultural Sciences & Svebio, Sweden</p> <p>Regional biomass action plan Christine Oehlinger, O.Ö. Energiesparverband, Austria</p>	<p>11.20 - Session C Biogas production</p> <p>Chairpersons: Tony Bridgwater, Aston University, UK & Jens Bo Holm-Nielsen, University of Southern Denmark</p> <p>Applying instrumentation, control and automation for biogas plants - Results of full-scale applications Klaus Dickman, Siemens AG, Germany</p> <p>Bio-hydrogen production via dark anaerobic fermentation of sucrose in a pilot scale reactor Aron Scaletta, Environment Park S.p.A., Italy</p> <p>Synthetic natural gas - Biofuel of the future?! Rudolf Simon, M+W Zander FE GmbH, Germany</p> <p>Potential technology for the advanced utilization of construction, demolition, and industrial waste Graham Aid, Royal Institute of Technology, Sweden</p> <p>Conversion of used paper and newspaper into usable energy Kazuhiko Murakami, Tokyo Metropolitan University, Japan</p>	<p>11.20 - Session D Environmental & legal issues</p> <p>Chairpersons: Dan Asplund, Benet Oy, Finland & Magdalena Rogulska, IPIEO, Poland</p> <p>LCA of bioethanol from different regional feedstocks Lin Luo, CML - Center of Environmental Sciences, The Netherlands</p> <p>Clean energy for development: The environmental and socioeconomic benefits of ethanol as a household cooking fuel in Ethiopia Milkyas Debebe, Gaia Association, Ethiopia</p> <p>Biogas technology - For a sustainable development in Africa Björn Martén, GEIST, Sweden</p> <p>High levels of wood dust during production of wood pellets in Sweden Katja Hagström, Örebro University Hospital, Sweden</p> <p>Incorporating changes in albedo in estimating the climate mitigating benefits of bioenergy projects David Neil Bird, Joanneum Research, Austria</p>
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13.00 Lunch & Exhibition

15.00 Daily field excursions
All field excursions depart from Elmia Conference and Exhibition Centre and will be back at approximately 18.00.

15.00 - 18.00 Brazil - Sweden symposium

Chairperson: Björn Telenius, Ministry for Enterprise & Energy, Sweden and Ambassador Antonino Lisboa Mena Goncalves, Embassy of the Federative Republic of Brazil, Sweden (tbc)

Introduction to the symposium and the Brazil-Sweden bioenergy cooperation, Short welcome by the Chairpersons

Swedish-Brazilian cooperation in Europe, Brazil and Africa, Per Carstedt, CEO, SEKAB BioFuel Industries and SEKAB Group

Swedish bioenergy research and opportunities for Brazil-Sweden research cooperation, Tomas Kåberger, Director General of the Swedish Energy Agency

Short rotation clonal eucalypt plantations for energy in Brazil: An overview, Laercio Couto, President RENABIO, Brazilian Network for the Use of Biomass for Energy Generation

Evaluation of the Biodiesel Program in Brazil, Arnaldo da Silva Walter, State University of Campinas, Sao Paulo

Preserving the world's tropical forests - a price on carbon may not do, Martin Persson, Dept. of Energy and Environment, Chalmers University of Technology

Achieving credibility in bioenergy certification, Peter Roberntz, WWF Sweden

Socially responsible expansion of Brazilian ethanol, Gerd Sparovek, Dept. of Soil Science, ESALQ, Sao Paulo University

Programme organization: Göran Berndes, Chalmers University of Technology, Mob: +46 730 794287, Email: goran.berndes@chalmers.se

08.00 Registration opens			
<p>09.00 - Session A Biomass resources & logistics</p> <p>Chairpersons: André Faaij Copernicus Institute, Utrecht University, The Netherlands (tbc) & Giuseppe Caserta, ITABIA, Italy (tbc)</p> <p>Current and future trade opportunities for woody biomass end-products from British Columbia, Canada Bas Verkerk, Copernicus Institute, Utrecht University, The Netherlands</p> <p>Short rotation willow coppice (SRC) Stig Larsson, Lantmännen Agroenergi AB, Sweden</p> <p>Virginia fanpetals - Huge potential for one of the most promising perennial energy crops Roman Molas, BNI/Hort-Max R&D, Poland</p> <p>Potential of oil palm biomass as feedstock for hydrogen production using supercritical water technology Keat Teong Lee, Universiti Sains Malaysia</p> <p>Storage of poplar wood chips in Northern Italy Raida Jirjis, Swedish University of Agricultural Sciences, Sweden</p> <p>Promoting approaches for increasing the cost efficiency of energy wood and pulpwood harvesting in young stands Kalle Karha, Metsäteho Oy, Finland</p>	<p>09.00 - Session B Biomass preparation, pretreatment & densification</p> <p>Chairperson: Daniel J. Vega, University of Vigo, Spain</p> <p>Evaluation of parameters determining PM emissions and their chemical composition in modern residential biomass heating appliances Ingwald Obernberger, BIOS BIOENERGIESYSTEME GmbH, Austria</p> <p>Effective use of rice or wheat straws Caidong D. Qin, LuAn Boshi Chemicals, China</p> <p>The effect of LignoBoost kraft lignin addition on the pelleting properties of pine sawdust Niels Peter K. Nielsen, University of Copenhagen, Denmark</p> <p>Energy efficiency of combined pellets and solar heating systems for single family houses Michel Haller, Graz University of Technology, Austria</p> <p>Detection of changes in fuel quality during storage of sawdust from pine and spruce by using gas chromatography - Mass spectrometry (GC-MS) and VIS-NIR- spectroscopy Mehrdad Arshadi, Swedish University of Agricultural Sciences, Sweden</p> <p>Effect of torrefaction on grinding energy requirement: First results on spruce Matthieu Rolland, IFP, France</p>	<p>09.00 - Session C Power & CHP applications based on biomass</p> <p>Chairpersons: Sebastian Kielburg, CARMEN, Germany (tbc) & Satu Helynen, VTT, Finland</p> <p>Operating experience from a new biomass fired FBC-plant with high steam parameters Markus Bolhar-Nordenkamp, Austrian Energy & Environment AG & Co KG, Austria</p> <p>Development of co-firing power generation market opportunities to enhance the EU biomass sector through international cooperation with China Edita Vagonyte, AEBIOM, Belgium</p> <p>28 MW biomass CHP gasification plant in Skive, Denmark Sven Aaen, AAEN A/S, Denmark</p> <p>Combustion efficiency/air emissions and heat transfer technology improvements John Olver, Wessex Incorporated, U.S. & Johnny Olsson, E.ON, Sweden</p> <p>CDM and urban air pollution: Case study on 2 MW x 5 biomass gasification for power generation in Jinan Leteng Lin, Shandong Academy of Sciences, China</p> <p>Z-dryer, a low energy, low temperature, no emission and no fire drying system Tomas Åbyhammar, ScanDry AB, Sweden</p>	<p>09.00 - Session D Liquid biofuel production & biofuel vehicle applications</p> <p>Chairpersons: Jack Saddler, University of British Columbia, Canada</p> <p>Pellet fuelled vehicle Martin Larsson, Precer AB, Sweden</p> <p>Engine solutions for any kind of biofuel Rolf Willkrans, AB Volvo, Sweden</p> <p>Talbotts biomass CHP micro turbine generator Ivan Tatt, Talbotts Biomass Energy Ltd, UK</p> <p>Effectiveness of biodiesel from various tropical oil crops on lubricity improvement of Ultra Low Sulfur Diesel (ULSD) Nuwong Chollacoop, MTEC, Thailand</p> <p>Fuel vapour composition and flammability properties of E85 Henry Persson, SP Technical Research Institute of Sweden</p> <p>Approaching the efficiency of starch-based ethanol production technologies- Lignol's cellulosic ethanol platform Alex Berlin, Lignol Innovations Ltd., Canada</p>
11.00 Coffee			



<p>11.20 - Session A Biomass resources & logistics II</p> <p>Chairpersons: Eija Alakangas, VTT, Finland & Sergey Karpachev, Moscow State Forestry University, Russia (tbc)</p> <p>Self heating in storages of wood pellets Per Blomqvist, SP Technical Research Institute of Sweden</p> <p>Microalgae an alternative to coal for power generation Mukesh T. Pandya, HOD, Jai Hind College, India</p> <p>Evaluation of integrated harvesting systems in pine stands of the Southern United States Shawn Baker, Warnell School of Forestry and Natural Resources, U.S.</p> <p>The domestic use of firewood and its influence on biomass resources Ola Lindroos, Dept. of Forest Resource Management, SLU, Sweden</p> <p>The PELLETS@LAS project - Mapping the European pellet markets Martin Junginger, Copernicus Institute, Utrecht University, The Netherlands</p>	<p>11.20 - Session B Visions, policy & planning II</p> <p>Chairpersons: Heinz Kopetz, Austrian Bioenergy Association & Tetsunari Iida, ISEP, Japan</p> <p>Sustainable biomass production in developing countries Kees W. Kwant, SenterNovem, Netherlands Agency for Innovation and Sustainability, The Netherlands</p> <p>Swedish homeowners, attitude towards water-based heating systems Leif Gustavsson, Mid Sweden University, Sweden</p> <p>A conceptual plan for achieving 100% energy independence in the Latvian transport sector Alfred Wong, Arbokem Inc., Canada</p> <p>Feasibilities of biodiesel production in a small community: Technical and economic aspects Chantaraporn Phalakornkule, King Mongkut's Institute of Technology North Bangkok, Thailand</p> <p>An evaluation of bioenergy supply potential and utilization technologies using a global land use and energy model Hiromi Yamamoto, The University of Tokyo and CRIEPI, Japan</p> <p>Bio-energy production in the context of global environmental challenges: Carbon management and land use Jan-Erik Petersen, European Environment Agency, Denmark</p>	<p>11.20 - Session C Power & CHP applications based on biomass II</p> <p>Chairpersons: Svend Brandstrup, DANBIO, Denmark & Kai Johan Jiang, Dragon Power, China (tbc)</p> <p>Multi staged gasification systems - A new approach Marcel Huber, MCI University of Applied Science for Environmental, Process and Biotechnology, Austria</p> <p>Optimisation of a regional bioenergy system Lilia Daianova, Mälardalen University, Sweden</p> <p>Evaporative coolers in district heating plants Jens Dall Bentzen, COWI A/S, Denmark</p> <p>Electricity from waste heat already at a low 55 °C Manuel Swärd, Opcon AB, Sweden</p> <p>Towards maximum biofuel efficiency and flexibility with reciprocating engines Jacob Klimstra, Wärtsilä Power Plants, The Netherlands</p>	<p>11.20 - Session D Liquid biofuel production</p> <p>Chairpersons: Kyriakos Maniatis, EC, Belgium (tbc) & José Roberto Moreira, CENBIO, Brazil (tbc)</p> <p>Improving palm oil properties for using as biofuel by microemulsion technique Chantra Tongcumpou, Chulalongkorn University, Thailand</p> <p>Ethanol production from lignocellulose by the dimorphic fungus <i>Mucor Indicus</i> Patrik Lennartsson, Högskolan Borås, Sweden</p> <p>A kinetic model for the enzymatic hydrolysis of cellulosic waste materials to fermentable sugars in solid-liquid systems Morteza Sohrabi, Amirkabir University of Technology, Iran</p> <p>Innovative small- and medium sized plants for production of biodiesel David Frykerås, Ageratec AB, Sweden</p> <p>Facile one-step conversion of lignin into biofuel components Tanja Barth, University of Bergen, Norway</p> <p>The KDV-method from Alphakat, Germany: An update on the development of the new catalytic low-temperature process for conversion of solid material containing hydrocarbons Edwin Krzesinski, AVBP, A Very Beautiful Place, Sweden</p> <p>Advancing cellulosic ethanol Emmanuel Petiot, Novozymes, U.S.</p> <p>Redefining the energy mix: Cellulosic biomass to BioOil Andrew Kingston, Dynamotive Energy Systems Corporation, Canada</p> <p>How to turn biological waste into ethanol Lars Welin, Taurus Energy AB, Sweden</p>
<p>13.00 Lunch and Exhibition</p>	<p>13.20 Lunch and Exhibition</p>	<p>13.00 Lunch and Exhibition</p>	<p>13.35 Lunch and Exhibition</p>
<p>15.00 Daily field excursions All field excursions depart from Elmia Conference and Exhibition Centre and will be back at approximately 18.00.</p>			

08.00 Registration opens			
<p>09.00 - Session A Biomass combustion & cofiring technologies</p> <p>Chairpersons: Ingwald Obernberger, Graz University of Technology, Austria & Hanspeter Fuchs, District heating power plant Dobbiaco - San Candido, Italy (tbc)</p> <p>System to reduce NO_x emissions from biomass boilers Richard F. Abrams, Babcock Power Environmental Inc., USA</p> <p>New burner cup technology for ash rich and sintering pellet fuels Håkan Örberg, Swedish University of Agricultural Sciences, Sweden</p> <p>Durable feedback control system for small scale wood chip combustion Timo Korpela, Tampere University of Technology, Finland</p> <p>Comparison of particle sampling in chimney and dilution tunnel during residential combustion of wood logs Linda Johansson, SP Technical Research Institute of Sweden</p> <p>Co-combustion of pulverized wood with oil and gas - Power plant and pilot scale investigation of burn out, NO emissions and deposit formation Peter Arendt Jensen, Technical University of Denmark</p> <p>Combustion properties and environmental performance during small scale combustion of pelletized white hardwood raw material Christoffer Boman, Umeå University, Sweden</p> <p>Fuel flexibility and optimal energy recovery requires qualified gas cleaning Bo Herrlander, Alstom Power, Sweden</p>	<p>09.00 - Session B Bio-refineries & bio-combines</p> <p>Chairperson: Cato Kjölstad, NOBIO, Norway</p> <p>Energy combines for integrated production of ethanol and biogas (prel.) Lars Åkerblom, CEO, Scandinavian Biogas Fuels AB, Sweden (tbc)</p> <p>Creating value from wood - A working biorefinery concept Gisle Johansen, Borregaard, Norway</p> <p>Evaluation of large-scale biorefining concepts for production of biofuels, fertiliser, and feed - New Danish developments Jens Bo Holm-Nielsen & Michael Madsen, University of Southern Denmark</p> <p>Potential of biorefineries as large-scale production plants for liquid fuels Speaker invited</p> <p>Conversion of cellulosic biomass to useable energy products Speaker invited</p> <p>On the possibility for co-generation of biofuels for transport and heat for district heating systems in EU25 Andrea Egeskog, Chalmers University of Technology, Sweden</p>	<p>09.00 - Session C Global state of bioenergy</p> <p>Chairpersons: S.C. Bhattacharya, International Energy Initiative, India & Gianluca Tondi, EC, Belgium</p> <p>Estimated volumes and costs of biomass exports from Canada Douglas Bradley, Canadian Bioenergy Association, Canada</p> <p>Brazilian market structure of wood briquettes Luiz Vicente Gentil, University of Brasilia, Brazil</p> <p>Bioenergy in developing world: A successful role model of Jatropha plantation on large scale Ohene Kwadwo Akoto, Jatropha Africa Ltd., Ghana</p> <p>European conditions, N-S & E-W aspects Heinz Kopetz, Austrian Bioenergy Association, Austria</p> <p>Green energy solutions in Chinese rural areas - A pilot study on promoting the utilization of local renewable energy resources and increased energy efficiency for improving living conditions and environment on the Chinese countryside Bjorn R. Sorensen, Narvik University College, Norway</p> <p>Traditional homegardens and domestic biomass fuel consumption pattern in the developing world: The case of a south-central rural village of Bangladesh Sharif Ahmed Mukul, Shahjalal University of Science & Technology, Bangladesh</p> <p>Bioenergy in New Zealand and Australia Avinash Shrivastava, Ministry of Agriculture and Forestry, New Zealand</p> <p>Certification to ensure sustainable production of biofuels Norbert Schmitz, meó Consulting Team, Germany</p> <p>Conclusions: Need for the World Bioenergy Association Kent Nyström, Svebio, Sweden</p>	<p>09.00 - Session D Biomass resources & logistics III</p> <p>Chairpersons: Raida Jirjis, Swedish University of Agricultural Sciences, Sweden & Andrew McFarlan, Dept. of Natural Resources, Canada</p> <p>Unutilized biomass resources in Swedish young dense forests Tomas Nordfjell, SLU, Department of Forest Resource Management, Sweden</p> <p>Whole tree chipping systems in coppice natural stands and young pine plantations in Castilla y León (Central Spain) Rubén Laina Relación, Politechnic University of Madrid, Spain</p> <p>Biomass production through satellite terminals and waterway transportation of wood chips Tapio Ranta, Lappeenranta University of Technology, Finland</p> <p>Agrotropical technology (prel.) Juan Carlos Cordoba, DHA, Colombia</p> <p>Speaker invited Speaker invited</p>
11.00 Coffee			



11.20 Closing Session

The role of bioenergy meeting global climate and energy challenges

Prof. Tomas Kåberger, Conference chairperson World Bioenergy 2008, Sweden

Panel discussion with highlights and issues presented by the World Bioenergy Association interim board

Members of the interim board

Video presentation on COP 15 in Copenhagen 2009

Conclusions and summing up

Prof. Tomas Kåberger, Conference chairperson World Bioenergy 2008, Sweden

13.00	Lunch and Exhibition
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15.00	Daily field excursions
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All field excursions depart from Elmia Conference and Exhibition Centre and will be back at approximately 18.00.

▶ Register online at www.worldbioenergy.se



MATCHMAKING MEETINGS

The successful matchmaking concept at World Bioenergy and Elmia Recycling continues!

Matchmaking offers you an additional channel of marketing your business and establishing new personal contacts through pre-scheduled meetings with companies and organisations from many different countries.

The pre-booked meetings last 25 minutes each and will take place in a purpose built meeting environment at the fair on 28 May.

The matchmaking event is arranged in cooperation with the EU financed Network; Enterprise Europe.

Deadlines

- Registration and submission of profiles: 25 April
- Requesting and confirming meetings: 14 May
- Receive schedules for individual meetings: 21 May

Main objectives

The objective of the matchmaking event is to actively stimulate and support the commercial dissemination of innovation and transactional technology transfer within the bioenergy and recycling industries by organising a qualified face-to-face forum.

The matchmaking event greatly assists and encourages participants to identify, approach and develop new business opportunities in existing and new market sectors with other European and international companies in a cost and time efficient way.

Why take part in matchmaking?

- You can increase your cost and time efficiency as you are presented with another channel of establishing personal contacts through timetabled face-to-face meetings with a pre-determined agenda over one day.
- You have the opportunity to, before the fair starts, pre-book meetings with companies/organisations which you have chosen to meet yourself, or which have requested to meet you.
- It offers participants an exceptional chance to profile themselves and meet with interesting international companies, technology providers, research institutes and those with in-licensing needs.
- The latest insights and information from leading technology providers and service suppliers within the international bio-energy, waste management and recycling sectors.

How it works

At the matchmaking event companies and organisations will have an opportunity to register their specific offer or requests in order to physically meet face-to-face with potential partners for technology transfer and commercial agreements.

In other words, pre-scheduled one-to-one meetings are requested via the matchmaking event website once you have filled in your profile and registration. A catalogue of offered and requested collaborations will be made available to participants prior to the event to maximise effective scheduling.

We will:

- offer you a highly efficient forum whereby you connect with potential international partners,
- include your cooperation profile in a special catalogue accessible via the Internet,
- organise pre-scheduled one-to-one meetings by offering interested parties to select from the catalogue and coordinating the requests for your profile into your personal appointment schedule.

You need to:

- book 27–29 May 2008 in your events calendar and specifically reserve 28 May 2008 for the matchmaking,
- indicate your area of interest by registering and filling in your technology or business cooperation profile detailing your request or offer,
- study the catalogue and select the profiles of interest to you and inform us of your selection,
- after receipt of your personal appointment schedule, plan your day at the matchmaking event.

Please note that all technology or business cooperation requests and offers must be submitted before 25 April 2008 to ensure inclusion in the catalogue.

All profile selections for meetings must be made by 14 May to ensure time efficiency. Based on this, Enterprise Europe Network will organise the meeting timetable and send out personal meeting schedules to all participants prior to the event.

Subject to availability last minute adjustments or meeting re-scheduling can be made at the reception desk during the event.

Who will attend?

- World Bioenergy and Elmia Recycling are strictly trade-only events. As such they attract key national and international players with purchasing power from the global waste management, recycling and bioenergy industries.
- Decision-makers looking to learn and share state-of-the-art waste management, recycling and bioenergy know-how along with hands-on commercial application.
- Decision-makers who want to connect, network and do business with existing and new technology providers and service suppliers.

The matchmaking event is exclusively addressed to companies, research institutes and universities, municipalities and financial institutes that are actively engaged within the field of bioenergy, waste management and recycling, especially in the thematic areas listed previously.

Cost

There is a one hundred Euro (100) fee (excl. VAT) which in addition to the matchmaking event includes entrance to both trade fairs and lunch.

Note that for exhibitors or conference delegates at World Bioenergy or Elmia Recycling there is no charge.

RECRUITMENT ACTIVITY

Participate in the sponsoring of university students. The sponsored students can attend the World Bioenergy event free of charge, and will thus take up very important knowledge and insight into the whole bioenergy sector. Invited students are enrolled at universities with relevant programmes, i.e. in energy technology, engineering, agriculture, forestry, environmental studies, economics, trade etc.

A company that registers and sponsors the Recruitment activity gets the following possibilities:

- to put company's information material in the students registration bag
- to get CV's and direct contact with the students at the compulsory recruitment seminar, Wednesday May 28th, 14.00-15.00 hrs
- to make a 15 min presentation of the company and it's recruitment needs at the recruitment seminar

For more information and price info, please visit www.worldbioenergy.se or contact: Johan Vinterbäck, Svebio, e-mail johan.vinterback@svebio.se, Gustav Melin, +46 70 524 44 00, e-mail gu.melin@telia.com



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SIDE EVENTS

We cordially invite for specialist and targeted sessions. Project meetings, contractor meetings, work-shops etc. can be held at Elmia fairground in connection to the conference and exhibition.

For further information, please contact Svebio, Karin Haara, phone +46 (0)8 441 70 84, e-mail karin.haara@svebio.se or Stina Backlund, phone + 46 (0)8 441 70 85, e-mail stina.backlund@svebio.se

Please note that all programmes are preliminary and subject to change.

24 - 26 MAY BIOENERGY SYSTEMS - INTRODUCTORY COURSE AT VÄXJÖ UNIVERSITY



PRELIMINARY PROGRAMME

09.00 SATURDAY 24 MAY

AM Lectures on biofuel fundamentals - definitions, fundamental properties etc.
 PM Lectures on fundamental properties of combustion and energy extraction from biofuels.
 Lectures on technologies suitable for biofuel utilisation and on technical system solutions for different products.

SUNDAY 25 MAY

AM Lectures to exemplify bioenergy system solutions for different energy services.
 PM Teamwork time to solve specific assignments including tuition.
 Accounts of the group-works and discussion.

MONDAY 26 MAY

Study tours
 Pellet production, small-scale heat production, large-scale CHP production
 Transport to Jönköping. Meeting up at the Ice Breaker and registration.

More information will follow. Please visit www.worldbioenergy.se for latest up-dates.

Contact: Björn Zethreus, Växjö Universitet, e-mail: bjorn.zethraeus@vxu.se

Fee: 5 000 SEK excluding VAT
 Please note, no discounts on fee. The course is not included in the all included package.

Maximum 40 delegates (minimum 10)

Accommodation and travel to Växjö is not included in the fee. Contact Jönköping Hotel and Conference Booking:
 Phone +46 36 10 71 71, Fax +46 36 10 77 68, e-mail jeanette.jansson@jonkoping.se



09.30 - 17.00 CHRISGAS WORKSHOP ON VEHICLE FUELS FROM BIOMASS: SYSTEM AND SUPPLY ASPECTS

The aim of the CHRISGAS project is to demonstrate, within a five-year period, the production of a clean hydrogen-rich synthesis gas from biomass. The demonstration plant is situated in Värnamo.

Start at 09.30 in Room Myrdal in the main building at Växjö University.

Preliminary list of speakers:

Coordinator

Tomas Kåberger, Director General Swedish Energy Agency (tbc)

VVBGC–Gasification Plant

Erik Rensfelt, MD VGGC

The Synthesis Gas Process in CHRISGAS

Sune Bengtsson, CHRISGAS Coordinator

The socio economic effect of a Bio DME plant in Växjö

Anders Baudin, Professor, Växjö University

Fuel situation in southern Europe

Kristina Torvaldsson, Växjö Kommun

Biofuel plant in Växjö

Repr from Ciemat

Black liquor gasification

Rikard Gebart, Professor, ETC

14.00 Discussion and summary


15.00 Study tour to the Gasification Plant in Värnamo. Guide during bus tour – Lennart Gårdmark

17.00 Transportation to Jönköping (World Bioenergy 2008)

Definite list of speakers will be published at www.chrisgas.com

Contact: Ann-Charlotte Tranvik, VEAB, phone +46 (0)470 775 254, e-mail Ann-Charlotte.Tranvik@veab.se

CHRISGAS»
fuels from biomass

 Swedish
Energy Agency



VEAB



Värnamo gasification plant – earlier used for electricity production, now rebuilt to produce synthesis gas for transport fuels.

15.00 - 18.00 SYMBOCITY - SUSTAINABILITY BY SWEDEN

Symbiosis means the integration of two or more organisms in a mutually beneficial union. In Sweden, where for fifty years we've focused on holistic city planning, symbiosis means finding synergies between urban technology systems that save natural resources and cost less.

PROGRAMME

Moderator: Linda Pettersson, Trade Commissioner, Swedish Trade Council in the United Kingdom

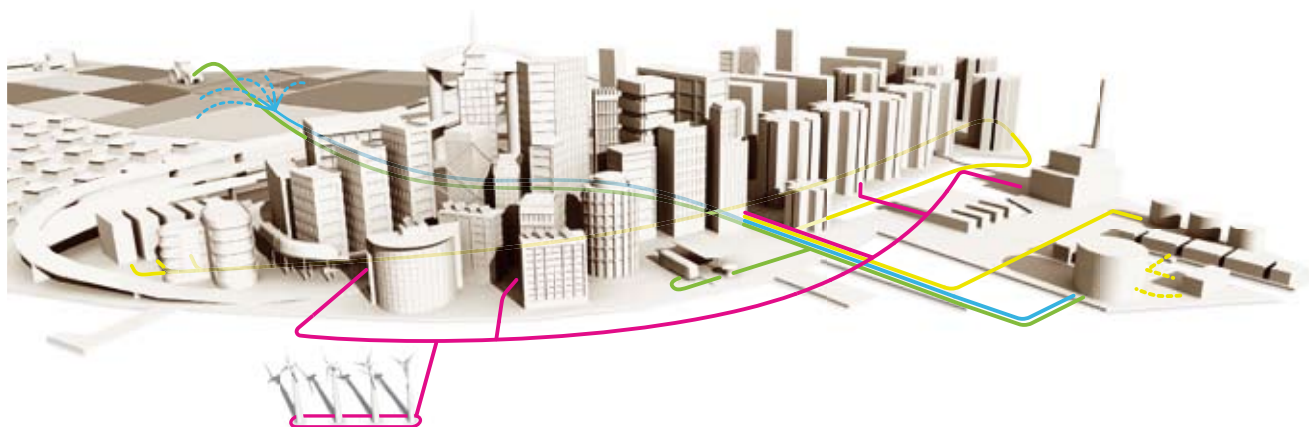
- 15.00 SymbioCity – Sustainability by Sweden
Prof. Tomas Kåberger, Director General, Swedish Energy Agency
- 15.30 Efficient combustion with low environmental impact
Mr. Christer Rosendahl, Sales director KMW Energi AB, www.kmwenergi.se
- 15.50 Transforming waste heat to energy and electricity
Mr. Per Hedeback, Managing Director, Opcon Energy Systems, www.opcon.se
- 16.10 Energy efficiency and energy production – the two global trends that drive our business
Mr. Gert Ternström, Marketing Manager, Biofuels, Alfa Laval, www.alfalaval.com
- 16.30 Sustainable and renewable - how can it be done?
Mr. Sten-Åke Barr, Marketing Manager ÅF AB, www.afconsult.com
- 16.50 Summing up. Getting more from less.
- 17.00 Refreshments in Swedish Trade Council stand, no A05:42.

Contact: Mona Hedenskog, phone +46 8 5886 6040, e-mail mona.hedenskog@swedishtrade.se

SymbioCity

SUSTAINABILITY BY SWEDEN

www.symbiocity.se



SymbioCity is the trademark that reflects all knowledge and experience in regard to the Swedish approach to sustainability. Several hundred Swedish consultants, contractors and system suppliers are organized in various networks dedicated to spreading the vision of sustainable urbanism and making the distance to implementation as short as possible.

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▶ Register online at www.worldbioenergy.se

15.00 - 18.00 BIOFUEL GASIFICATION - STATE OF THE ART

Hosted by: Solander Symposium and Synbios 3

SYNBIOS 3

PROGRAMME

15.00 - 15.05	Welcome - Moderator presentation
15.05 - 15.25	Tony Bridgewater - Aston University
15.25 - 15.55	Robert Bergman & Rikard Gebart Solander Science Park Piteå (BLGMF)
15.55 - 16.15	Erik Rensfelt - Chrisgas (& Gasification Council of the Swedish Energy Agency)
16.15 - 16.35	Nils Lindman - AGA Linde
16.35 - 16.55	Lars Holmquist - Göteborg Energi (GoBiGas)
16.55	Questions and Discussion



Contact: Robert Bergman, e-mail robert.bergman@pnf.se, Magnus Henke, e-mail magnus.henke@ecotraffic.se

15.00 - 18.00 PEAT ENERGY SYSTEMS

Chairperson: Marie Kofod Hansen, Swedish Peat Research Foundation

PRELIMINARY PROGRAMME

Practical experiences of the use of peat in a heating plant
Lotta Tranvik, Växjö Energi AB

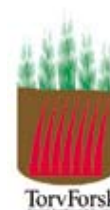
New methods for peat production
Leif Olsson, Neova

Peat pellets for small scale use
Ida-Linn Nyström, Luleå Technical University

Sustainable peat production and use – environmental sustainability criteria for peat
Magnus Brandel, Swedish Peat Producers Association

Discussions and conclusions

Contact: Marie Kofod Hansen, phone +46 8 441 70 74, e-mail marie.kofodhansen@torvforsk.se



Sod peat production at a Swedish peat bog.

15.00 - 18.00 CANADA - YOUR BIOENERGY PARTNER

Host: Embassy of Canada in Sweden



Moderator: Mr. Michael Siewecke, Commercial Counsellor, Embassy of Canada

PROGRAMME

- 15.00 Welcome Remarks
Ambassador of Canada Alexandra Volkoff
- 15.05 Sustainable Forest Management and Climate Change
Dr. Pierre Bernier, Research Officer, Canadian Forest Service
- 15.25 Biomass Supply
Mr. Douglas Bradley, President, Canadian Bioenergy Association
- 15.45 Bioenergy Activities and Research
Dr. Andrew McFarlan, Manager Bioenergy Group, CANMET Energy Technology Centre, Natural Resources Canada
- 16.05 Coffee
Market Drivers and Investment Opportunities:
- 16.30 British Columbia
Dr. Staffan Melin, Research Associate, University of British Columbia, Department of Chemical and Biological Engineering
- 16.50 Ontario
Mr. Douglas Clark, Business Development Consultant, Ontario Ministry of Economic Development and Trade, Value-Added Resources
- 17.10 Quebec
Mr. Carl-Eric Guertin, Manager Communications and Responsible Trade, Quebec Wood Export Bureau (Q-WEB)
- 17.30 Maritime provinces
Mr. Bruce McCallum, Chair, CANBIO - Maritime Bioenergy Working Group
- 18.00-20.00 Networking reception

Contact: Inga-Lill Olsson, Maria Stenberg, e-mail stkhm-commerce@international.gc.ca

Canadian Trade Commissioner Service: www.infoexport.gc.ca

15.00 - 18.00 AGRICULTURAL BIOFUELS AND THE MEDIA

Do you seek to understand the complex and controversial issues concerning biofuels in connection with such matters as efficiency and climate? Are you involved with biofuel development, media coverage or other interested sectors, and dealing with inadequate information, strong opinions or discussions going off-track? If so, you are welcome to participate in this program, where experts and the media people are brought together. The event aims to help clarify public information and debate in the intensively developing biofuels field.

The choice of system boundaries and their impacts on calculations of energy efficiency and climate impact. What should be included, in terms of Life Cycle Analysis (LCA) standards?

Pål Börjesson, Associate Professor, Environmental and Energy Systems Studies, Lund University.

Factors impacting energy efficiency and climate impact. Example: ethanol from grain and sugar beet.

Mats Edström, Researcher, JTI - Swedish Institute of Agricultural and Environmental Engineering.

Understanding media processes and trends. Dialogue between Jonas Fröberg, reporter covering climate och cleantech at Svenska Dagbladet Näringsliv, and a Media researcher.

How can companies and researchers deal with these situations?

Biofuels and greener cars in the media – successes and failure from the Swedish example.

Mattias Goldmann, responsible for media relations, Swedish Association of Green Motorists.

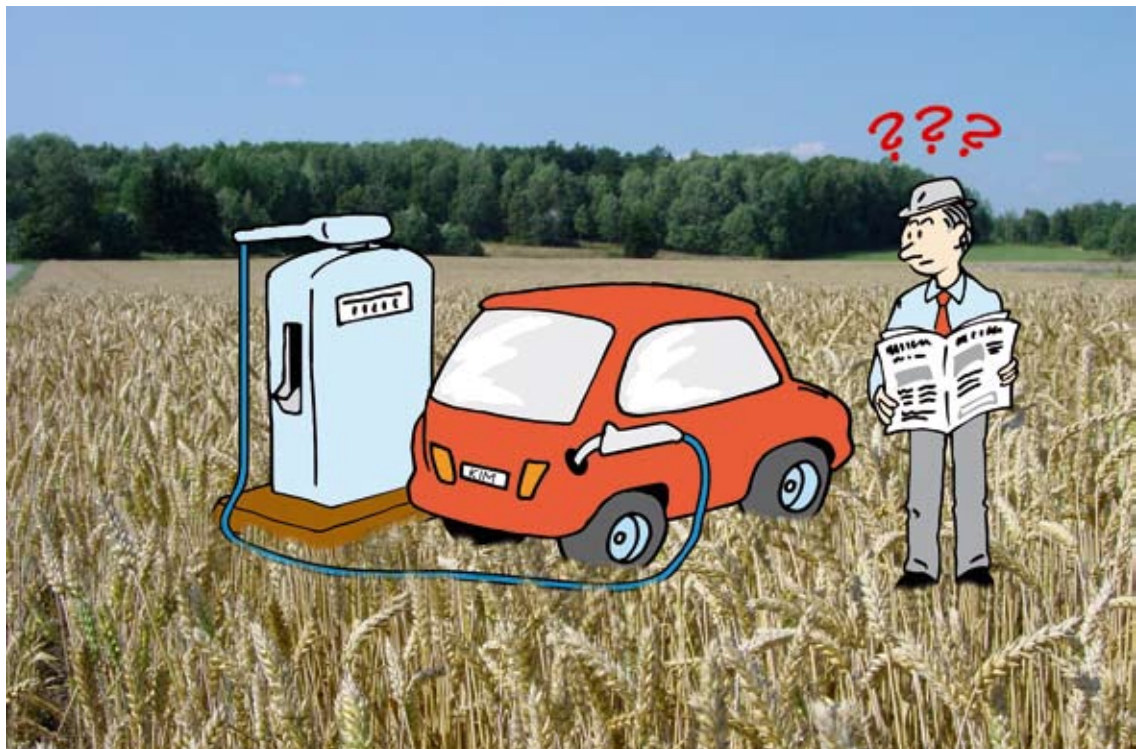
This side-event invites companies, scientists and everyone with an interest in the development of agricultural biofuels.

JTI – Swedish Institute of Agricultural and Environmental Engineering is an industrial research institute working with research, development and information in agriculture, environment, energy production and waste management.

Contact: Maya Forsberg, e-mail: Maya.Forsberg@jti.se, phone +46 18 30 33 62



JTI - Swedish Institute of Agricultural
and Environmental Engineering



Using agricultural crops for biofuels raises new concerns and questions both for media and for the public.

15.00 - 18.00 NORTH-SOUTH-SOUTH FORUM ON BIOFUELS FOR DEVELOPMENT IN AFRICA: THE ROLE OF REGIONAL POLICIES AND PUBLIC-PRIVATE PARTNERSHIPS

Organiser: Stockholm Environment Institute (SEI)



Sub-Saharan Africa has the greatest bioenergy potential of any world region, due to its size, suitable soils and climate, and the low levels of current utilisation of cultivable agricultural lands. A significant amount of infrastructure and investment will be required in order to develop this potential.

Many players in the North are looking towards this potential for international trade, which carries with it both risks and opportunities. In order to harness this bioenergy potential in a way that is sustainable and equitable, new public-private partnerships along with a consistent policy framework are needed.

The North-South-South cooperation model is highly relevant for developing this sector; key actors from leading bioenergy countries in the North (U.S. and EU) and South (Brazil, China and India) could work towards new partnerships with their counterparts in Africa.

Focusing on liquid biofuels for various applications, this side event will explore the various options for such partnerships and the policies that need to accompany them.

An expert panel with several African and international analysts and partnership/project developers will address the key issues through short presentations followed by a panel discussion and an open discussion with the audience.

Moderator: Semida Silveira, Energy and Climate Studies, Royal Institute of Technology, Stockholm

PROGRAMME

- | | |
|---------------|---|
| 15.00 - 15.10 | Opening comments: Francis Johnson, Maria Milagros Morales, SEI |
| 15.10 - 16.15 | <p>Addressing the African Biofuel Debate
Bothwell Batidzirai, Chinhoyi University, Zambia</p> <p>Bringing a Swedish Product to an African Market: The Role of Partnership and International Cooperation for Developing a Locally Owned Ethanol Stove Business in Ethiopia
Milkyas Debebe, Gaia Association, Addis Ababa, Ethiopia</p> <p>A biofuels prenuptial: Questions for Southern policy makers before marriage
Margaret Matinga, University of Twente, Netherlands</p> <p>Panel/Open Discussion</p> |
| 16.15 - 16.45 | Break |
| 16.45 - 17.50 | <p>Development and Implementation of Biomass Energy Pilot Activities in Uganda
Sunil Dhingra, Fellow at The Energy Resources Institute (TERI), Delhi, India</p> <p>Bioenergy investment in Africa
Michael Nilsson, Chairman, Biomassive, Sweden</p> <p>Common challenges to sustainable rural biogas programmes in China and Africa
Lailai Li, SEI</p> <p>Panel/Open discussion</p> |
| 17.50 - 18.00 | Closing remarks |
| 18.00 - 20.00 | Networking and refreshments |

Contact: Fiona Zuzarte, SEI, Fiona.Zuzarte@sei.se

Biomass residues at the AG Timbers Sawmill in the Kumasi region, Ghana

Photo: Anders Arvidson, Stockholm Environment Institute (SEI)



14.00 - 18.00 STATUS AND NEXT STEPS FOR THE DEVELOPMENT OF SECOND GENERATION ETHANOL**PRELIMINARY PROGRAMME**

International and Swedish status for second generation ethanol research
Guido Zacchi, Lunds University

The NILE project: European research cooperation for second generation ethanol
Maria Edlund, NILE

Powerplant integration and the development and industrialisation of cellulose ethanol, for Sweden and for the world
Jan Lindstedt, SEKAB E-Technology and Industrial Development

Short and medium term perspective on increased biomass production in Sweden
Tomas Nordfjell, SLU

Biomass potential in Sweden from a long term perspective
Petter Gustavsson, Umeå Plant Science Center and SweTree Technology

Panel discussion with all the speakers

Contact: Annika Carstedt Parmlid, e-mail annika.carstedt@sekab.com



At the Ethanol Pilot Plant in Örnköldsvik ethanol is made from woodchips.

Photo: Håkan Nordström



The 2nd generation ethanol pilot plant in Örnköldsvik was inaugurated in 2004.

Photo: Håkan Nordström

11.00 - 18.00 SIDE EVENT ORGANISED BY IEA BIOENERGY

Organisers: IEA Bioenergy

Task 30 (Short rotation crops for bioenergy systems)

Task 32 (Biomass combustion and co-firing)

Task 40 (Sustainable International Bioenergy Trade)

AGS Flagship program "Pathways to Sustainable European Energy Systems"

ELOBIO: Efficient and Low Disturbing Biofuel Policies (EC, DG TREN project)



"T30/32: CO-FIRING – AN OPPORTUNITY FOR SHORT ROTATION CROPS? TECHNICAL FOCUS"

Chairperson: Jan van Esch, T30 The Netherlands

- | | |
|-------------|--|
| 11.00-11.20 | Introduction: Realization of potentials for short rotation crops in Europe
Göran Berndes, T30 Sweden |
| 11:20-11:40 | Can SRC crops be tailored to meet end user fuel quality requirements?
Stig Larsson, Agroenergi AB |
| 11.40-12.00 | Pathways to sustainable European Energy Systems: bridging options within the existing energy infrastructure
Filip Johnsson, Pathways Programme Director |
| 12.00-12.20 | Biomass co-firing with coal: State of the art
Bo Leckner, Chalmers |
| 12.20-12.40 | Lignocellulosic ethanol: Options for co-siting with coal fired power plants
Henrik Thunman, Chalmers University of Technology |
| 12.40-13.00 | IEA Bioenergy Task 32:
Focus issues and central findings
Claes Tullin, T32 Sweden |

"T40: HOW TO SPEED UP THE PROCESSES TO MAKE THINGS HAPPEN"

Chairperson: Julia Hansson, Chalmers University of Technology

- | | |
|-------------|--|
| 11.00-11.10 | Introduction
André Faaij, T40 Netherlands / Bo Hektor, T40 Sweden |
| 11.10-11.30 | Free Trade: The Swedish initiatives and policies
S-O Ericsson Ministry of Enterprise, Energy, and Communications |
| 11.30-11.50 | Sources of biomass
Martin Junginger, T40 Netherlands |
| 11.50-12.10 | "We have the engine technology, where are the fuels?"
Rolf Willkrans, AB Volvo |
| 12.10-12.30 | Brazil as an exporter of ethanol;
Views into the Future
Arnaldo da Silva Walter, T40 Brazil |
| 12.30-12.50 | Financing an expanding bio-energy trade
Niels Madsen, COWI |
| 12.50-13.10 | The bio-energy trade in the Baltic Sea.
Can fleet and port capacities meet the expected expansion?
Percy Österström, Österström Shipping |

"T30/32/40: FUTURE EUROPEAN SUPPLIES –DOMESTIC SHORT ROTATION CROPS OR FREE TRADE?"

Chairperson: Julia Hansson, Chalmers University of Technology

- | | |
|-------------|---|
| 15.00-15.20 | Large scale end users; The potential for biomass co-firing in EU27
Julia Hansson, Chalmers |
| 15.20-15.40 | Small scale end users; Pellets
Christian Rakos, ProPellets |
| 15.40-16.00 | Linking short rotation crops to end users; UK experiences
Gillian Alker, T30 UK |
| 16.00-16.20 | Certifying imported biofuels for transport – Next step certified solid biofuels?
Frank Rosillo-Calle, T40 UK |
| 16.20-16.40 | Strategic planning for biomass: Co-firing and other options
Mia Nordström, Vattenfall |
| 16.40-17.00 | Introduction to panel debate: Realizing the potential; how much, when, and by whom?
Bo Hektor, T40 Sweden |
| 17.00-17.50 | A strategic market view on bioenergy – risks, opportunities and policy-market interactions:
-should co-firing drive SRC development
-should green certificates require certified biomass fuels?
-should policy set RES targets and let market forces shape the global supply systems?
Filip Johnsson, moderator
Panelists: Nordström, Vattenfall representative, Peter-Paul Schouwenberg, T40/Essent, Madsen, COWI |
| 17.50-18.00 | Summary and concluding remarks
Bo Hektor, T40 Sweden |

IEA Bioenergy is an organization set up in 1978 by the International Energy Agency (IEA) with the aim of improving cooperation and information exchange between countries that have national programmes in bioenergy research, development and deployment. IEA Bioenergy operates within the IEA energy technology and R&D collaboration programme. This facilitates cooperation among IEA Member and non-Member countries to develop new and improved energy technologies and introduce them into the market. The work of IEA Bioenergy is carried out through a series of Tasks, each having a defined work programme.

Pathways to Sustainable European Energy Systems is one of several regional projects launched within the AGS Energy Flagship Program, which is the first of the AGS Flagship Programmes of integrated research, education, and outreach, focused on broad topics of global importance. The Alliance for Global Sustainability (AGS) is an international partnership between Swiss Federal Institute of Technology, Zurich; Massachusetts Institute of Technology; University of Tokyo and Chalmers University of Technology, Sweden. Together the four partner institutes focus on strong research alliances with industrial and government partners and seek to expand education activities in sustainable development.

ELOBIO: Efficient and Low Disturbing Biofuel Policies

The DG TREN project ELOBIO aims to design biofuel policies with minimal impact on food and feed markets and biomass for power and heat. Key activity will be the understanding and modeling of biomass markets and trade along with an intensive stakeholder consultation on policies and impacts.

14.00 - LATE SUSTAINABLE CITY OF VÄXJÖ & KINGDOM OF CRYSTAL



Visit the Greenest City in Europe. The City of Växjö decided 1996 to stop using fossil fuels. Between the years 1993 to 2006 the City decreased the CO2 emissions by 30% per capita while the growth in GRP/capita was 50% over the same period. Växjö Energy Ltd, a heat and power biomass fuelled CHP plant connected to a district heating grid, is the largest contributor to the change. Learn more about how the city managed to lower the emissions from fossil fuels and at the same time keeping a strong economic growth, well above the national average. During the dinner at the world's premier glass works, Orrefors/Kosta Boda, we will be shown glass blowing and some of us will have the opportunity to try ourselves.

PRELIMINARY PROGRAMME

- 14.00 Departure from Elmia Conference & Exhibition Center in Jönköping. Guide during the tour will be Mr. Henrik Johansson from Växjö Municipality.
- 15.00 Visit at a small scale district heating plant (3.5 MW wood chips and 1.5 MW pellets), Växjö Energi in Braås
- 16.30 Visit at a combined heat and power station (104 MW, the Sandvik II), Växjö Energi in Växjö
- 19.00 Hyttsill dinner at Kosta Glass works including glassblowing. Transfer back to Jönköping.

More information on www.veab.se, www.vaxjo.se and www.kostaboda.se

Contact: Hans Gulliksson, Energikontor Sydost, e-mail hans.gulliksson@energikontor-so.com

15.00-18.00 BIogas UTILIZATION, IN A NATIONAL (SWEDISH) AND INTERNATIONAL PERSPECTIVE

Due to greenhouse gas emissions from human activities and climate changes, increased use of bio energy and the exchange of fossil energy to renewable are urged. The utilization of biogas has an important role in the energy system of today and tomorrow. In this session different types of end use of biogas is presented in a national (Swedish) and international perspective. This side event also presents a case study and an international overview of biomass gasification and methanation, the 2:nd generation biomethane production.

Arranged by: Swedish Gas Association, Swedish Biogas Association, Swedish Gas Centre, Biogas Syd and Biogas Väst

PRELIMINARY PROGRAMME

Moderator: Jörgen Held, Managing Director, Swedish Gas Centre

- 15.00 Production and use of biogas in Sweden
Stefan Dahlgren, Swedish Gas Association and Swedish Biogas Association
- 15.15 Biogas in an international perspective
Anneli Petersson, National Team Leader, IEA Bioenergy Task 37 Energy from biogas and landfill gas, Swedish Gas Centre
- 15.35 Heat and power production from biogas
Mikael Lantz, Lund Institute of Technology
- 15.55 Vehicle gas utilization in Sweden – today and tomorrow
Anders Mathiasson, Managing Director, Swedish Gas Association
- 16.15 Coffee break
- 16.40 The role of biomethane for the growing use of NG/biomethane as vehicle fuel
Peter Boisen, Chairman of the new NGVA Europe
- 17.00 Dual Fuel – a key technology for environmentally friendly transports
Mattias Svensson, Research manager, Swedish Gas Centre
- 17.20 GobiGas, Gothenburg Biomass Gasification Project (a case study of a 2:nd generation biomethane production plant)
Ingemar Gunnarsson, Göteborg Energi
- 17.40 Biomethane – a promising 2:nd generation fuel
Staffan Karlsson, Research manager, Swedish Gas Centre
- 18.00 End of session

Contact: Stefan Dahlgren, Swedish Biogas Association, e-mail stefan.dahlgren@sbgf.info

15.00-18.00 EUROPEAN PELLETT RESEARCHER NETWORK MEETING**PRELIMINARY PROGRAMME**

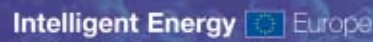
- 15.00-15.20 Opening, background and present network activities
Magnus Ståhl, Karlstad University, Sweden
- 15.20-16.00 Roundtable where all participants present themselves and their research in 1-5 min
- 16.00-16.05 Pellet research activities in Spain
Luis Ortiz, University of Vigo (tbc)
- 16.05-16.10 Pellet research activities in Sweden
Henry Hedman, ETC, Sweden (tbc)
- 16.10-16.15 Pellet research activities in Japan
Hironao Matsubara, Institute for Sustainable Energy Policies (tbc)
- 16.15-16.20 Pellet research activities in Canada
Staffan Melin, University of British Columbia (tbc)
- 16.20-16.25 Pellet research activities in the Netherlands
Martin Junginger, Copernicus Institute, Utrecht University (tbc)
- 16.25-16.30 Pellet research activities in Denmark
Niels Peter K. Nielsen, University of Copenhagen (tbc)
- 16.30-16.35 Pellet research activities in Austria
Michel Haller, Graz University of Technology, Austria (tbc)
- 16.35-16.40 Pellet research activities in Chile
Gabriela Rodríguez Espinosa/Ramón del Pino Vivanco, Fundacion Chile (tbc)
- 16.40-16.45 Pellet research activities in Finland
Lasse Okkonen, North Karelia University of Applied Sciences, Finland (tbc)
- 16.45-16.50 Pellet research activities in India
S.C. Bhattacharya, International Energy Initiative (tbc)
- 16.50-17.45 Roundtable discussion about the future and development of EuPRN
- 17.45-18.00 Conclusions and summing up
Magnus Ståhl, Karlstad University, Sweden

Contact: Magnus Ståhl, Karlstad University, e-mail magnus.stahl@kau.se

14.00 - 18.00 USING REED CANARY GRASS FOR ENERGY



Kempestiftelsema



Workshop on using reed canary grass for energy: A side event of the conference World Bioenergy 2008

The workshop is a part of activities of the project "Promoting the production and utilisation of energy crops at European level" that is financed by EU Intelligent Energy Europe (EIE/07/073/S12.567608). Swedish Energy Agency (STEM 30709-1), Kempe foundation and Swedish University of Agricultural Sciences are co-financiers in Sweden.

The aim of the workshop is to increase the knowledge and interest towards energy crops among potential users. The event will be focused on the technical and economical viability and on practical fuel handling, combustion properties and successful examples as well as technical challenges to be expected in the utilisation.

Place: Elmia conference centre, Jönköping

PRELIMINARY PROGRAMME

14.00 – 14.10	Opening, background of ENCROP project and the activities in Sweden Dr. Shaojun Xiong, SLU-BTK
14.10 – 14.30	Fuel characteristics of reed canary grass Mr. Jan Burvall, Skellefteå Kraft
14.30 – 14.50	Energy crop production costs in the EU today and in the future Dr. Håkn Rosenqvist, SLU (topic is subject to change)
14.50 – 15.00	Carbon sink and RCG cultivation: a possible added value in future? Dr. Shaojun Xiong, SLU-BTK
15.00 – 15.20	Systems for handling RCG biomass: existing and future techniques Mr. Håkan Örberg, SLU-BTK
15.20 – 15.40	RCG supply for CHP: Mr. Olli Reinikainen, Vapo, Finland
15.40 – 16.10	Coffee break
16.10 – 16.30	Energy crop utilization in Austria for the production of 2nd generation biofuel Dr. Reinhard Rauch, Vienna University of Technology
15.30 – 15.50	Upgrading biomass: barriers to be broken Dr. Sylvia Larsson, SLU-BTK
16.50 – 17.10	RCG for CHP and pellet production in Skellefteå Kraft Mr. Jan Burvall, Skellefteå Kraft
17.10 – 17.30	RCG briquettes from Låtra gårds to heat plant Mr. Göran Winkler
17.30 – 18.00	General discussions: problem existing All people
18.00	Close of the workshop

13.30 - LATE FROM WASTE TO ENERGY IN BORÅS - THE CITY OF DESIGN



BORÅS STAD



Welcome to Borås, a city where practical solutions build the long-term sustainable society. Where waste is used in the heat production, where organic waste becomes biogas and used as vehicle fuel. Meet the suppliers as well as the decision makers and learn about the experiences. The evening dinner is held in a historical atmosphere of the city's textile heritage.

PROGRAMME

13.30 Departure from Elmia

14.30 Arrival in Borås

Borås, a city where practical solutions build the long-term sustainable society. Where waste is used in the heat production, where organic waste becomes biogas and used as vehicle fuel. Meet the suppliers as well as the decision makers and learn about the experiences.

The excursion will start with a first stop at Sobacken where the city's household waste is crucial in making Borås part of the biological cycle.

Sobacken is a waste management facility. Sobacken manages both household and industrial waste, but all of it are not treated in the installation. The waste can be incinerated in the incineration plant to produce heat, be used in the digestion plant to produce biogas or be composted at the composting plant.

SP - presents, project Waste Refinery, which is cooperation between SP Technical Research Institute of Sweden, the University College of Borås and the business community. The centre has the resources to conduct research projects that can reduce the environmental impacts and the costs of waste management.

At Sobacken you will also have the opportunity to meet Flexus Bala and Läckeby Water Group.

Flexus Balasystem AB is a Swedish manufacturer, located in Nossebro (near Gothenburg) with over 15 years of experience in designing and manufacturing systems for handling, storing and disposing of solid waste from households, recycling and agricultural industries. The core technology consists of a unique roundbaler, protected by worldwide patents.

Läckeby Water Group is an independent, privately-owned Swedish group, which offers contracting (Purac), products (Läckeby Products) and servicing for water treatment and biogas production. Läckeby is established on three continents and have to date completed contracts in 67 countries worldwide.

Second stop, Borås city hall

Anders Glemfelt, Head of Trade and Industry Department, Energy strategy, presents (project Biogas and energy-efficiency).

SMHI Business and Media, Torbjörn Grönbergs, Projectmanager.

Business & Media Services markets and produces customised and industry-specific forecasting and data services.

FVB District Energy, Wlodek Wagrowski,

FVB District Energy Inc. is responsible for the business planning, conceptual engineering and final design of district heating, cooling and combined heat and power projects.

19.00 Dinner at "Textile Museum"

22.00 Transfer back to Jönköping

Web: www.ecoex.eu

14.00 - 16.30 NORDIC BIOENERGY 2009 PREVIEW

Bioenergy is fast growing with high tech solutions for the production of heat, electricity and transport fuels. Increased use of biomass is motivated by environmental benefits, socio-economic benefits and the importance of a secure energy supply.

The various Nordic bioenergy markets are expanding and becoming more and more internationally integrated, experiencing increased demand on the specialized modern competence that the Nordic countries have developed during more than 25 years in different bioenergy areas.

The Nordic Bioenergy Conference is held every 2nd year, and the Bioenergy Associations in Denmark, Finland, Norway and Sweden take turns in arranging the event in co-operation with the others. Next time 2009, 26-28 may it is Denmark's turn.

PROGRAMME

Chairperson: Svend Brandstrup Hansen, Danbio

The Bioenergy portfolio of the Nordic countries:

Bioenergy makes up 25 % of total energy consumption in Sweden.

Small-scale applications are well developed in Norway, and now the pellets market is booming. Agriculture is a natural part of the bioenergy sector in Denmark. Finland is a leading country in using biomass such as wood fuels and peat for energy purposes.

Round table discussion: How is the nordic countries and companies going to meet up on the European RES directive?

Kent Nyström, Svebio, Sweden

Juha-Pekka Kuitto, Finbio, Finland (tbc)

Svend Brandstrup Hansen, Danbio

Cato Kjölstad, Nobio (tbc)

Discussion, summing up and networking

Contact: Pia Vedelsparre, e-mail pv@capraconsult.dk

SOCIAL PROGRAMME

26 MAY "ICE BREAKER" AT ELMIA

19.00 - 22.00 An informal drop-in opportunity with a light buffet, drinks and entertainment for those of you who arrive in Jönköping 26 May. You can register your arrival, collect your conference programme, delegate packs and documentation. For those of you participating in the exhibition or poster exhibition, the exhibition hall is also open for preparations. This is a perfect opportunity to get to know the premises and socialize with other delegates.

27 MAY OFFICIAL CONFERENCE DINNER

20.00 - LATE Three course dinner with entertainment and dinner speech at Elmia conference & exhibition centre.

27 - 29 MAY BIOMASS BAR AT ELMIA

17.00 - 19.00 Opportunity to meet with other delegates and discuss experiences of the day in a relaxed environment.

27 - 29 MAY DAYTIME SOCIAL ACTIVITIES

These events are available Tuesday 27 May - Thursday 29 May, depending on the number of people registered. Register on www.worldbioenergy.se

Glass country

- 09.00 Departure from Elmia
Coffee with sandwiches is served on the bus.
- 11.00 Visit at Målerås glassworks, short guided tour in the exhibition hall and production.
Time for shopping.
- 12.00 Lunch at "Wårdshuset Hyttan" at the Målerås glass works with a view over the glasswork.
Warm lunch served with bread, salad, drink, coffee and cake.
- 13.30 Guided tour of Bruno Mathssons glass house in Kosta.
- 14.15 Visit to Kosta glassworks on your own. Kosta Outlet 20 000 m² shopping!
- 15.30 Departure for Jönköping
- 17.30 Arrival at Elmia

Price per person: 600 SEK

Minimum: 40 persons

Maximum: 100 persons

Beautiful island Visingsö

- 10.00 Departure from Elmia
- 10.30 Ferry to Visingsö
- 11.00 "Remmalag" – Guided tour by horse carriages.
- 12.00 Lunch at "Solbacken"
Warm lunch served with bread, salad, drink, coffee and cake.
- 13.00 Ferry back to Gränna
- 13.30 Bus back to Jönköping
- 14.00 Arrival at Elmia

Price per person: 600 SEK

Minimum: 40 persons

Maximum: 120 persons

Museum tour

- 10.00 Departure from Elmia, a guide will greet you at the bus and follow along all day.
- 10.15 Visit to Husqvarna Factory museum.
- 11.30 Visit to Jönköping Regional museum.
- 12.30 Lunch in central Jönköping incl. drink, bread, salad, coffee and cake.
Guided walking tour through Jönköping.
- 13.30 Visit to the match museum.
- 14.30 End of tour in central Jönköping.

Price per person: 600 SEK

Minimum: 20 person / group

Maximum: 30 persons / group

Maximum: 3 groups

With reservations for time changes in the programme.



From the conference dinner at World Bioenergy 2006.

EXHIBITION, 27 - 28 MAY 09.00 - 17.00, 29 MAY 09.00 - 16.00

Next to the conference hall is the indoor exhibit area with direct access to the outdoor area. Here you will find leading international technology suppliers and service providers to the entire bioenergy sector. From biomass feedstocks and raw materials to biofuel markets will be showcased and, in many cases, vividly demonstrated. Exhibitors include companies and organisations such as:

- Biomass producers (e.g. growing, harvesting, collecting, handling etc)
- Biofuel producers & suppliers (e.g. pellets, ethanol, biogas, biodiesel etc)
- Technology & service providers
- Distribution & transport
- Combustion & handling engineering

- R&D, training & education
- Consultants & agencies
- Industry associations & trade press

For more information about exhibiting, please contact Mr. Alan Sherrard at Elmia phone: +46 36 15 22 14, e-mail: alan.sherrard@elmia.se

BUSINESS MIXERS, 28 MAY 17.00 - 20.00

The exhibition hall is open "after hours" for conference delegates and other invited VIP's who are interested in exploring business opportunities. An ideal opportunity to meet, mingle and network with the people who can help you transform bioenergy visions into viable business projects.

USEFUL INFORMATION

REGISTRATION/INFORMATION

The registration/information desk is open the following hours:

Mon 26 May:	16.00 - 22.00
Tue 27 May:	08.00 - 16.00
Wed 28 May:	08.00 - 16.00
Thur 29 June:	08.00 - 16.00

Address: Elmia Conference and Exhibition Centre
Elmiavägen 11, SE- 550 06 Jönköping, Sweden

ACCOMMODATION

Jönköping Hotel and Conference Booking

Collaborates closely with over 40 local hotels.

BoPrima

The company is an intermediary and has about 170 flats and private houses for renting for your own access in the Jönköping-Huskvarna area.

Contact information:

Tel: +46 36 10 71 71

Fax: +46 36 10 77 68

E-mail: hotellbokning@jonkoping.se

Online inquiries: www.jonkoping.se/hotellbokning

TRAVEL

By Pre- and Post Conference Tours

Organised by Svebio. More information on page 5.

By car

You reach Elmia by car from the north or south via the E4 motorway, and from east and west by main thoroughfares. You can rent a car from the local offices of any of the following companies:

- Avis (www.avis.com)
- Europcar (www.europcar.com)
- Hertz (www.hertz.com)

By air

Jönköping has several daily flights to and from Stockholm. The Jönköping airport is located 13 kilometres from the urban center.

- Skyways (www.skyways.se)

By train

You can travel to Jönköping easily by train from Stockholm, Gothenburg, Malmö and Copenhagen. For information about departure times and connections, see the Swedish State Railway (SJ), www.sj.se, or telephone SJ at +46 8 696 75 40 or Sweden Booking at + 46 498 20 33 80. You can also telephone Jönköping Hotellbokning on telephone +46 36 10 71 71.

By bus

Svenska Buss. Timetables and route map. (www.svenskabuss.se)

Swebus. Route map, prices and timetables. (www.swebusexpress.se)

Taxi

Taxi: Elmia co-operates with Taxi Jönköping, phone +46 36 34 40 00, that has fixed prices for travels between Elmia and the hotels. You can order a taxi at Elmia's information desk.

Other taxi companies:

Flygtaxi: +46 20 97 97 97

Taxikurir: +46 36 31 31 31

Taxi 020: +46 36 30 27 27

LANGUAGE

English is the official language of the conference.

Simultaneous translation may be available on request. Please contact Svebio for further information (+46 8 441 70 80).

CLIMATE

Late May daytime temperatures range 15-20° C (60-70° F), usually sunny and dry.

REGISTRATION INFORMATION

CONFERENCE FEES

Register as a delegate at World Bioenergy 2008 on www.worldbioenergy.se.

3 DAYS (27 - 29 MAY)	Please note that for all participants an additional 25% VAT will be charged.
Registration fee	3 700 SEK
2 DAYS	
Registration fee	2 600 SEK
1 DAY	
Registration fee	1 500 SEK
OPTIONAL ACTIVITIES	
Pre conference tours 26 May	1 100 SEK
Post conference tours 30 May	1 100 SEK
Side events	600 SEK
Conference dinner	600 SEK
Icebreaker	Included
All included (Includes all activities above)	7 000 SEK

The conference fee includes access to the conference World Bioenergy 2008, the integrated daily field excursions, conference documentation, and entrance to the World Bioenergy exhibition. A light lunch and coffee/tea during morning and afternoon breaks are also included.

The pre- and post conference tours, social programme and side events are additional. This fee includes all activities, meals and travel costs specified. Kindly note that these activities are tentative, and subject to change.

DISCOUNTS

For delegate groups (10 persons or more), a 10% group discount on the conference fee is available. For further information, please contact Dr Johan Vinterbäck, Svebio, phone +46 (0)8 441 70 83, johan.vinterback@svebio.se.

A 50% student discount on the conference fee is available for third-level students currently enrolled in a relevant field of study. However, participation is free of charge for students taking part in the recruitment activity. A valid student card or letter from a university department or similar will be required as proof. For more information, please visit www.worldbioenergy.se.

A 30% discount on the conference fee is available for World Bioenergy exhibitors.

Discounts can not be combined.



Elmia exhibition area and conference center is located near lake Vättern, Sweden's second largest lake.

SPONSORSHIP INFORMATION

Why not make the most of your participation at the largest bioenergy event in the world? Market your company through sponsoring at World Bioenergy 2008.

For further information about World Bioenergy 2008 sponsorship, see www.worldbioenergy.se or please contact:

Gustav Melin, phone +46 70 524 44 00, e-mail gu.melin@telia.com

PROGRAMME UPDATES

Please note that the programme is subject to change. Latest news about World Bioenergy 2008 and an updated programme can be found on www.worldbioenergy.se.

► Register online at www.worldbioenergy.se

PATRON OF WORLD BIOENERGY

His Majesty King Carl XVI Gustaf of Sweden

ORGANISERS

Swedish Bioenergy Association (Svebio) and Elmia AB

CONFERENCE CHAIRPERSON

Prof. Tomas Kåberger, Director General of the Swedish Energy Agency

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 Mr. Kent Nyström, Swedish Bioenergy Association
 Mr. Alan Sherrard, Elmia, Sweden
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