

IEA Bioenergy Task 31 – Biomass Production for Energy from Sustainable Forestry

IEA Bioenergy Task 38 – Greenhouse Gas Balances of Biomass and Bioenergy Systems

IEA Bioenergy Task 40 – Sustainable International Bioenergy Trade: Securing Supply and Demand

FINAL PROGRAMME

International Workshop

“Woodfuel Supply Chain – Sharing Experience”



Warwick, England

14th September – 19th September 2008

including

Field Study Tour

Background

This is an international workshop organized jointly by IEA Bioenergy Tasks 31, 38 and 40 in association with the Biomass Energy Centre, the Forestry Commission and Forest Research. IEA Bioenergy is an international collaborative R&D agreement, with the aim to accelerate the use of environmentally sound and cost-competitive bioenergy on a sustainable basis, to provide increased security of supply and a substantial contribution to future energy demands. Within this framework, a number of tasks concentrate on different aspects of the bioenergy chain.

The objective of **Task 31** is to share, analyse, synthesise, disseminate and promote scientific knowledge and technical information leading to the economically and environmentally sustainable production of biomass for energy from integrated forestry systems. The Task builds on existing scientific and technical knowledge, information and expertise, adding new information from research and practical experience as it becomes available. This multi-disciplinary body of information is used in an integrated way to emphasise the scientific principles behind the biological, economic, environmental and social components of sustainable forest biomass production systems. The Task also has a significant role in identifying breakthrough technologies in relation to silviculture, forest management, harvesting and transportation in conventional forestry systems for bioenergy.

Task 38 analyses and integrates information on bioenergy, land use, and greenhouse-gas (GHG) mitigation; thereby covering all components that constitute a biomass or bioenergy system, i.e. from biomass production to bioenergy conversion and end use. The ultimate goal of Task-38 is to aid policy and industry decision makers in selecting mitigation strategies that optimise GHG benefits while being practical and cost effective.

The core objective of **Task 40** is to support the development of sustainable, international, bioenergy markets, recognising the diversity in resources and biomass applications. The Task aims to provide strong contributions to policy-making decisions for market players, policy makers, international bodies and NGO's, by providing high quality information and analyses, overviews of developments, linking different arenas involved in the debate, and being a clearinghouse for information and its dissemination. The Task aims to provide an outstanding international platform to make inventories of available information and experience, provide new analyses and set the agenda and initiate a host of new activities relevant for developing sustainable biomass markets and trade worldwide.

The Forestry Commission, together with Forest Research is responsible for providing support to the public and private sector woodfuel industries in the UK. As such they administer grant funding, provide training and information to raise the profile of this emerging industry. This Workshop presents shared experience of the

development of this supply chain in England, problems overcome, milestones achieved and hurdles yet to be overcome.

English Midlands: Woodfuel Supply Chain – Sharing Experience

In contrast to its continental European neighbours England's woodfuel sector is still developing. But there is currently a considerable ground swell of interest in the woodfuel sector and rapid industry development across the sector. Renewable energy and carbon saving are headline objectives but the UK's under managed woodlands have the potential to be reinvigorated through the new market opportunities energy production offers.

Workshop Objectives

This Workshop presents shared experience of the development of the woodfuel supply chain in England and elsewhere, problems overcome, milestones achieved and hurdles yet to be overcome. It will provide an opportunity and venue for resource managers, power industry representatives, bioenergy systems equipment manufacturers, energy production professionals, energy users, program managers, educators, scientists and researchers to exchange information and discuss sustainable management, production and use of forest biomass for energy as an integral part of resource management for multiple benefits. The workshop will focus particularly on innovative opportunities and practical solutions for forest biomass production for energy in small-scale systems.

Within that broad general framework, more specific consideration will be given - in presented papers and posters and field study visits - to issues of:

- effects of intensive forest energy production on site productivity and mitigating environmental impacts
- social issues and community development (urban production systems and CHP systems)
- criteria and indicators for sustainable forest energy systems
- technology, logistics and economics of supply chains of forest biomass for energy, particularly small-scale, low impact systems.
- role of forestry in GHG mitigation
- sustainable international bioenergy trade, including trade statistics
- domestic bioenergy potential versus demand and the role of international Bioenergy trade
- industrial applications of Bioenergy, e.g. co-firing and stand-alone biomass plant

Programme outline

ARRIVAL IN WARWICK

Sunday 14 September, 2008

19:00 Ice-breaker with a light buffet dinner

FIELD STUDY TOUR DAY 1 - WEST MIDLANDS

Monday 15 September, 2008

Breakfast 07:15

Departure time 08:15

Stop 1 – Eccleshall Power Station

Travel to Harper Adams University College

Stop 2 – Harper Adams University College (Small-scale CHP and feedstock issues, including Miscanthus and Willow) hosting Bioenergy West Midlands

Stop 3 – Short Rotation Coppice (Willow and Poplar) - AF Hill & Son, Redditch

Return time is between 17:00 & 18:00

18.30-20.30 Dinner

IRONBRIDGE EXCURSION DAY 2

Tuesday 16 September, 2008

Breakfast 07:15

Departure time 08:15

Stop 1 - The Iron bridge

Stop 2 - Aga Rayburn Foundry

Stop 3 - Blists Hill Victorian village with packed lunch @ Blists Hill

Stop 4 - Green Wood Centre tour and Tea / coffee / biscuits

Return time is between 17:00 & 18:00

18.30-20.30 Dinner

WORKSHOP TECHNICAL SESSIONS DAY 3

Wednesday 17 September, 2008

Breakfast 07:15

Starting time 08:30

Technical sessions will be held at Warwick University

End of workshop technical sessions at 18:00

19:00 to 23:00 Conference Dinner

WORKSHOP TECHNICAL SESSIONS DAY 4

Thursday 18 September, 2008

Breakfast 07:15

Starting time 08:00

Technical sessions will be held at Warwick University.

End of workshop technical sessions at 17:15

Cricket taster 18.00-19.30 for those interested at the Sport Hall

18:30-20:30 Dinner

“INDUSTRY DAY” AT THE APF EXHIBITION DAY 5

Friday 19 September, 2008

Breakfast 07:15

Departure time 08:00

A series of presentations at the Association of Professional Foresters International Forest Machinery Exhibition, the largest exhibition and display of forestry, woodland, arboriculture, utilities and estate management machinery, equipment, supplies and services in the UK. The event has something of interest for both the trade and the general public. There is wide variety of arena events, competitions and displays, many of which you will not see anywhere else and it is a fantastic opportunity to compare rival machines in a realistic working environment and learn what goes on in the UK's woodlands.

Return to Warwick University at approximately 17:00

Dinner will be served at Warwick Rootes Restaurant, 18.00 onwards

Ice breaker and field trips

ARRIVAL IN WARWICK

19:00 Ice-breaker with a light buffet dinner

Sunday 14 September, 2008

Chancellors suite, Rootes building

FIELD STUDY TOUR DAY 1 - WEST MIDLANDS

Breakfast 07:15

Departure time 08:15

18.30-20.30 Dinner

Monday 15 September, 2008

Rootes restaurant

Kone area

Rootes Restaurant

IRONBRIDGE EXCURSION DAY 2

Breakfast 07:15

Departure time 08:15

18.30-20.30 Dinner

Tuesday 16 September, 2008

Rootes restaurant

Kone area

Rootes Restaurant

Coaches collection point

The coaches collection point will be located in the Kone area behind the Art Centre.

Clothing

The field tour/excursion will take place during autumn in middle England and it can be cold and/or wet. It is therefore recommended that participants bring long trousers, warm pullovers, water proof jackets and closed footwear.

Personal Protective Equipment

Safety shoes will be required for the visit of the AGA foundry on Monday 15.09.08. If you have some, please bring them with you. Some safety shoes will also be available at the site for those who require them.

Other PPE (helmets and high visibility jackets) will be provided to the delegates.

Workshop Topics

The overall workshop theme of ‘Woodfuel Supply Chain – Sharing Experience’ will be explored in presentations and discussions under two topics which pose questions which participants may consider in light of their own experience.

Topic A - ‘Global Supply Chains; Blessing or Curse?’

The rapid growth in world-wide production and commodity trading of biomass and biofuels has greatly enhanced the profile of bioenergy as a renewable energy technology. However this growth has given rise to issues at international, national, regional and local levels concerning the practicalities of establishing economically viable supply chains and the effects of different scales of production and use, among many other issues. Presentations in individual technical sessions will address:

- UK biomass supply and trade
- Regional biomass supply chains
- Economics and modelling of supply
- Social and community issues
- and other related topics.

Topic B - ‘Standards, who needs them?’

The range of entities involved in handling biomass along the supply chain from feedstock producer to energy consumer has the potential to be vast. Ensuring sustainability and minimizing impacts on the environment through the ‘chain of custody’ will require standardization and schemes to increase market confidence. This includes standardization and quality assurance of biomass fuels for different users. Presentations in individual technical sessions will address:

- Site productivity and environment
- Greenhouse gas balances and mitigation
- Sustainability criteria and certification
- and other related topics.

A broad range of practical issues dealing with the technology and logistics of forest biomass harvesting, transportation and storage will also be addressed in technical sessions. These issues affect an important segment of the biomass supply chain, but are equally important as an area in which the application of standards is vital to ensure sustainability and quality.

08:30 - 12:30 Session 1. Opening of the workshop... Welcome and Introduction**Plenary Session****Panorama suite, Rootes building****Theme A: Global Supply Chains – ‘Blessing or Curse?’****Theme B: Standards – ‘Who needs them?’****08:45-9:15 Welcome and Scene setting****09:15-10:00 Opening Speaker – Sir Ben Gill - Leading advocate for bioenergy in the UK, past President of the National Farmer's Union and Executive Director of Hawkhill's Consultancy**

10:00 - 10:30 Coffee Break

10:30 - 12:30 **Plenary – Keynote Addresses****10:30-11:00 Perttu Anttila et al, ‘Where is woodfuel globally?’****11:00-11:30 Philip Wallace, E.ON, ‘The Commercial and Environmental Sustainability of Biomass-Fuelled Power Generation in the United Kingdom’****11:30-12:00 Annette Cowie, ‘Is my bioenergy project carbon neutral?’****12:00-12:30 Discussion**

12:30-13:30 Lunch

Rootes restaurant13:30-15:35 **Session 2. Parallel Technical Sessions****Social studies building****Session 2-1 (Theme A)**

- 13:30 D. Clubb *et al.*, ‘A strategic regional approach to biomass fuel supply – the north east of England as a case study’
- 13:55 Calliope Panoutsou *et al.*, ‘Defining the key cost areas in a supply chain analysis: The case of woodfuel supply chains in the UK’
- 14:20 Sophie Jablonski *et al.*, ‘Modelling of woody biomass chains for heat production in the UK, and formulation of scenarios for the residential sector using MARKAL’
- 14:45 M.G. Render, ‘Woodfuel East’
- 15:10 J.C. Rogers *et al.*, ‘Community-based woodfuel schemes in rural Cumbria: participants experiences and social impacts’

Session 2-2 (Theme A)

- 13:30 Joop H. Spiker, ‘Production of energy from multifunctional and nature forests in the Netherlands’
- 13:55 Dirk de Boer, ‘The landscape as a source of energy’
- 14:20 Robert Prinz *et al.*, ‘Holistic supply chain design in Central Europe – interviews of forest technology dealers and entrepreneurs’
- 14:45 Toon Beeks, ‘The freshwood fuel supply chain – a case study’
- 15:10 Bede Howell, ‘Wood fuel chain – the essential components’

Session 2-3 (Theme B)

- 13:30 Hans Petersson *et al.*, ‘Sustainable use of stumps for forest fuels’
- 13:55 Emily A. Carter *et al.*, ‘Assessing soil impacts related to forest harvest operations’
- 14:20 Donald Mead & C. Tattersall Smith, ‘Principles of nutrient management for sustainable forest bioenergy production’
- 14:45 A. Weatherall *et al.*, ‘Long-term effects of whole-tree harvesting and/or fertilisation and/or herbicide application on restock trees in Kielder, Ae and Teindland forests’

15:10	Gustaf Egnell, 'The effect of slash removal and clear-cut age on establishment and growth of Norway spruce seedlings in southern Sweden'	
15:35-15:55	Coffee Break	
15:55-18:00	<u>Session 3. Parallel Technical Sessions</u>	
	Session 3-1 (Theme A)	
15:55	Douglas Bradley, 'Canada forest biomass and supply chains'	
16:20	Timo Karjalainen & Yuri Gerasimov, 'Possibilities for energy wood procurement in Northwest Russia'	
16:45	Martin Junginger, 'Overview of international bioenergy trade developments'	
17:10	Richard Nelson, 'Overview of biomass supply issues in the US: national and international'	
17:35	Beatrice Emer <i>et al.</i> , 'The effects of demand and price on optimal regional supply of large-scale wood-based heating plants'	
	Session 3-2 (Theme A)	
15:55	Kalle Kärhä & Tage Fredriksson, 'Towards more cost-effective production of logging residue chips from final cuttings'	
16:20	Markku Oikari <i>et al.</i> , 'Boosting the cost-efficiency of wood harvesting in young stands'	
16:45	Johannes Windisch <i>et al.</i> , 'Application of modern information systems in the storage management of forest fuels – a comparison study of Germany and Finland'	
17:10	Sanna Peltola <i>et al.</i> , 'Estimating the yield of forest biomass for energy with harvester's data management system'	
17:35	Juha Laitila & Jani Heikkilä, 'Harvesting alternatives and cost factors of small-diameter thinning wood for fuel in Finland'	
	Session 3-3 (Theme B)	
15:55	Sofie Hellsten <i>et al.</i> , 'Assessing the environmental effects of biomass scenarios in Sweden applying nutrient mass balances at a national scale'	
16:20	Cecilia Akselsson <i>et al.</i> , 'Modelling effects of increased biomass removal on climate, acidification, eutrophication and ground vegetation composition – a system dynamics approach as a basis for comparison between different environmental aspects'	
16:45	Thomas Buchholz <i>et al.</i> , 'Sustainability Criteria for Bioenergy Systems: Results from an Expert Survey'	
17:10	Didier Marchal <i>et al.</i> , 'What's new in sustainability criteria for forest energy systems in Wallonia (Belgium)?'	
17:35	Willem J. Brouwer, 'Voluntary agreements with stakeholders, the Dutch approach'	
19:00 – 23:00	IEA Conference dinner	Chancellors suite, Rootes building

08:00-10:05 **Session 4. Parallel Technical Sessions**

Social studies building

Session 4-1 (Theme A)	
08:00	D. van der Horst, 'Utilising biomass energy: comparing a centralist allocation model with a bottom-up private initiative model'
08:25	Brad Stennes & G. Cornelis van Kooten, 'Implications of expanding bioenergy production from wood in British Columbia: an application of a regional wood fibre allocation model'
08:50	Jianbang Gan & C.T. Smith, 'Couple life cycle analysis with supply chain optimization in determining biofuel conversion plant size'
09:15	Frank Rosillo-Calle, 'Food biofuel and land use: why we need international bioenergy trade and an agricultural revolution'
09:40	Ulrich Tuch & Jörg Schweinle, 'Biomass distribution centres – agents between forest owners and consumers?'
Session 4-2 (Theme A)	
08:00	Kari Väätäinen <i>et al.</i> , 'The operational cost-efficiency of waterway transporting of wood chips in the lake Saimaa waterway'
08:25	Maria Iwarsson Wide, 'Techniques and methods for harvesting of small trees'
08:50	Helmer Belbo, 'Whole tree harvesting in early thinnings and landscape management'
09:15	Karri Pasanen <i>et al.</i> , 'Multi-criteria evaluation of technology chains – a case of liquid biofuel production in Finland'
09:40	Tapio Räsänen & Kalle Kärhä, 'Energy wood potentials in Finland'
Session 4-3 (Theme B)	
08:00	D.G. Neary <i>et al.</i> , 'Approaches to ensure sustainability of forest bioenergy harvesting'
08:25	Jeremy Woods, 'Certification in the UK'
08:50	German representative [tentative], 'Certification internationally, with special attention to GHGs'
09:15	Arto Kariniemi & Kalle Kärhä, 'CO ₂ emissions in the production of forest chips in Finland'
09:40	Robert Matthews <i>et al.</i> , 'Quantifying the Potential and Impacts of Developing Local Sources and Markets for Wood Fuel in the UK: The Woolhope Dome Project Case Study'
10:05-10:40 Coffee Break	
10:40-12:00 Session 5. Poster Session	
Social studies refreshment area	
10:40-12:00	Posters (with authors present)
	Annette Cowie, 'Greenhouse gas mitigation benefits of biochar as a soil amendment'
	Beatrice Emer <i>et al.</i> , 'Analysis and productivity of chipping energywood in Finland and Germany'
	Johanna Enström, 'Efficient handling of wood fuel within the railway system'
	Jonathan Hillier <i>et al.</i> , 'Spatial predictions of greenhouse gas emissions and sequestration under production of short rotation coppice and <i>Miscanthus</i> in the UK'
	Eero Jäppinen <i>et al.</i> , 'Combining life cycle assessment (LCA) and geographical information system (GIS) methods for emission analysis of forest fuel procurement chains'
	Kalle Karttunen <i>et al.</i> , 'Biomass production through satellite terminals and waterway transportation of wood chips'
	Chyrel A. Mayfield <i>et al.</i> , 'Woody biomass outreach training in the Southern United States'
	Fay McKenzie, 'The potential of Willow SRC as a biomass crop for Orkney'

	<p>Tapio Ranta <i>et al.</i>, 'Biomass supply logistics for a biorefinery integrated with pulp and paper mills in Finland'</p> <p>Tapio Ranta <i>et al.</i>, 'Large-scale woody biomass supply to a potential biorefinery integrated with pulp mill – comparative supply analysis study between Finland and Brazil'</p> <p>Dominik Röser <i>et al.</i>, 'PELLETtime – solutions for competitive pellet production in medium size enterprises'</p> <p>Eric L. Taylor & A. Gordon Holley, 'Economic viability of growing energy plantations combined with traditional sawtimber crops in the Western Gulf region of the United States'</p> <p>Julia Tomei & Paul Upham, 'Incorporating southern stakeholder perspectives: an Argentinean case study'</p> <p>Patricia Thornley <i>et al.</i> 'Integrated assessment of UK bioenergy systems: Supergen bioenergy'</p> <p>Carly Whittaker <i>et al.</i>, 'Life cycle analysis of forest residues in bioenergy supply chains in the UK'</p>
12:00-13:00	Lunch Rootes Restaurant
13:00 Session 6. Final Plenary and closing speakers	
13:15 – 13:45 Brenna Lattimore et al, 'Closing the gaps: Bringing together science, policy and operations through the use of sustainable forest management frameworks.'	
13:45 – 14:15 Leif Gustavsson et al, 'Costs, CO₂- and primary energy- balances of forest-fuel systems.'	
14:15 – 14:45 A.P.C. Faaij, 'Ways forward with developing working sustainable biomass markets.'	
14:45-15:15 Coffee Break	
15:15 - 16:30	Discussion and Recommendations and Actions
16:30 – 17:15	Closing address and thanks

From 18:00 to 19:30, delegates will be offered the opportunity to take part in a 'cricket taster' session at the sport hall – please do bring a pair of trainers or sport shoes, other suitable equipment will be provided..

Dinner will be served at Rootes restaurant until 20:30.

Woodfuel Discussion Forum

The APF Exhibition is the showcase event for the British forestry and arboricultural professions. Held biennially, the three day event attracts over 15,000 people who come to see the numerous exhibits, stalls, demonstrations and industry seminars. Woodfuel technology, services and equipment form an increasingly large part of the show. With everything from arborist training courses to wood waste extraction equipment, the APF Exhibition has it all and is the place to meet the sector and see and hear the latest news and developments.

This year the APF is being held in the Forestry Commission's woodland in Cannock Chase, just 1/2 hour drive from Birmingham. The forest comprises a diverse mix of broadleaved and coniferous forest. It is particularly well known as a multipurpose forest, producing valuable softwood timber, hosting well attended concerts and having cycling facilities of international repute. The forest forms part of Cannock Chase Area of Outstanding Natural Beauty (AONB). The AONB was created for the area's unique landscape, wildlife and historical interest. Cannock Chase AONB is also the largest lowland heathland in the Midlands

08:00 Departure**Kone area behind the Art Centre**

09:45 Opening of the event, Tim Rollinson, DG Forestry Commission

10:00-11:00 Session 1 Supply Chains, chaired by Forestry Commission Director General, Tim Rollinson

Invited expert panel

- **André Faaij** – IEA Task 40 leader, associate professor at the Copernicus Institute for Sustainable Development of the Utrecht University
 - **Angela Duignan** - Head of Woodfuel Implementation, Forestry Commission England,
 - **Jonathan Scurlock** - National Farmers Union, Chief Adviser, Renewable Energy and Non-Food Crops
 - **Robert Matthews** – Forest Research, Biometrics, Surveys and Statistics Division Programme Leader
 - **Gillian Alker** - Woodland Economic Development Officer South East, Forestry Commission England,
- answering questions on Supply Chain issues (coffee will be available during discussions)

12.00 packed lunches

14:00-15:00 Session 2 Fuel Quality, chaired by Angela Duignan - Head of Woodfuel Implementation, Forestry Commission England

Invited expert panel

- *industry representative to be confirmed*
- **Gideon Richards** – Renewable Energy Agency, UK Standards expert,
- **Ewan Bent** - UK Industry representative,
- **Steve Bishop** – Sembcorp,
- **Andy Hall, Regional Director Forestry Commission (East Midlands) formerly Forest Research Woodfuel Research Centre**, answering questions on Fuel Quality issues.

General Information for participants

All accommodation is single bedded en suite. In order to get your preferred type of accommodation we recommend early booking. **Bookings will close on Monday, 1st of September.**

A separate programme for the accompanying persons will not be organized; however, there is plenty to do on campus and in the surrounding towns and cities. Accompanying persons are welcome to join the ice-breaker event, conference dinner, excursion on the 16th of September and the APF Exhibition visit on the 19th September.

How to get there

By air

The campus is located approximately 30 minutes by road from **Birmingham International Airport**, 1 hour from **Nottingham East Midlands Airport**, 2 hours from **Luton Airport** and 15 minutes from **Coventry Airport**.

By rail

The nearest station is **Coventry**; the Chiltern line runs from **Warwick Parkway** and **Leamington Spa** stations from which you can get a taxi to campus, approximate journey times 15 minutes from Warwick Parkway and 25 minutes from Leamington Spa, 12 minutes from Coventry Railway Station.

You can also take the Travel West Midlands number 12 from the Warwick Road Bus Stop at Coventry Station. When you pass through the ticket barrier at Coventry Station please take your first left following a footpath to the bus stop on the bridge of Warwick Road. Buses leave frequently for the University and the journey time is approximately 20 minutes. The number 12 bus travels through central campus. For Rootes Building, once on central campus get off at the third stop and the Rootes Building is directly in front of you.

For further information please see: <http://www.travelwm.co.uk/>

By road

You will find directions, depending on where you're travelling from, with the map enclosed.

Car parking

You can park your car in car parks 6, 8 (these tend to be full quite often), 7 or 15 (see map) –let us know when you're checking in that you will require an exit ticket and we'll provide you with one.

A complete campus map is enclosed.

Check-in and registration

On arrival present yourself at the Rootes building, the registration desks for the IEA workshop will be clearly sign-posted.

Registration / check-in times will be open

Sunday 14.09 – 15.00-23.00

for delegates attending the whole event, ice-breaker + field trips only, and accompanying persons

Tuesday 16.09 – 15.00-23.00

for delegates attending the conference only on a residential basis

Wednesday 17.09 – 8.00-9.00

for delegates attending the conference only on a non-residential basis

Thursday 18.09 – 15.00-23.00

for delegates attending the industry day only

If you arrive outside these hours, you can leave your luggage in the locked luggage room in Rootes building main hall – just ask Reception.

If you are planning to arrive before 7.00 in the morning or after 23.00 at night, please do let us know (stephanie.roux@forestry.gsi.gov.uk or 0044 (0) 7771 810 122) as this will be outside the building normal opening hours and we'll need to advise security beforehand.

Check-out

You are asked to vacate your room by 9.30 am on your day of departure. You will be able to store your luggage in the secure luggage room in Rootes reception hall.

FEES

<i>Main Conference, field trip and industry day</i>	<i>£615</i>
5 nights B & B (September 14 to 18), icebreaker, field trips 15 th and 16 th , main conference 17 th and 18 th , industry day 19 th , all meals including conference dinner from Sun 14 th dinner to Fri 19 th dinner, refreshments, delegate pack, transport for field trips and industry day	
<i>Accompanying Persons (14th to 19th inclusive)</i>	<i>£ 520</i>
5 nights B & B (September 14 to 18), icebreaker, field trips 15 th and 16 th , industry day 19 th , all meals from Sun 14 th dinner to Fri 19 th dinner except lunch 17 th and 18 th , conference dinner, refreshments, delegate pack, transport for field trips and industry day	
<i>Ice breaker and field trips</i>	<i>£210</i>
2 nights B & B (September 14 & 15), icebreaker, field trips 15 th and 16 th , all meals from Sun 14 th dinner to Tue 16 th lunch, delegate pack, transport for field trips	
<i>Conference Attendance Only (September 17th and 18th)</i>	<i>£105</i>
Delegate pack, morning and afternoon refreshments, and lunches on 17 th and 18 th	
<i>Conference Attendance Residential (September 17th and 18th)</i>	<i>£235</i>
B&B nights 16 th and 17 th , all meals from lunch 17 th to dinner 18 th , delegate pack, morning and afternoon refreshments	
<i>Conference Dinner (17th)</i>	<i>£25</i>
Conference dinner 17 th	
<i>Industry Day (19th)</i>	<i>£170</i>
B&B night 18 th , transport, delegate pack, packed lunch and dinner	
<i>B&B (19th)</i>	<i>£55</i>
B&B night 19 th , transport, delegate pack, packed lunch and dinner	

All prices exclude 17.5% VAT

Bookings will close on Monday 1st of September

REGISTER FOR THE WORKSHOP: <https://reg.istrations.com/delegate/events/CVNIEC2008>

More information about the West Midlands Region is available at: <http://www.visitheartofengland.com/> and <http://www.travelwm.co.uk/>

If you have any other questions please contact:

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Instructions to Presenters/Authors

Presentations

There will be 25 minutes allocated (20 minutes talk plus 5 questions/discussion) for each presentation. Please send your presentations by **Friday 5th of September** at the latest to stephanie.roux@forestry.gsi.gov.uk.

The presentations will be set up on the conference rooms computers prior to the sessions. On the day of the conference, the room will be accessible 15 minutes before the beginning of the session should the speakers want to carry out any checks prior to the session.

During the conference, scribes will take notes of the presentations and then submit these notes to you for your review and approval, in an attempt to have the proceedings of the conference promptly available and put online. Thanks for sparing them the necessary time to review these notes... and allow a prompt publication of the proceedings!

PowerPoint presentations will be collected and made available after the workshop on the Tasks websites and on CD to all workshop participants.

Poster holders

The posters will be displayed in the Social Studies refreshment area.

It will be possible to put the posters up on **Monday 15.09 between 18.00 and 19.00**, and on **Wednesday 17.09 between 17.00 and 19.00**.

The posters will need to be removed on **Thursday 18.09 between 17.30 and 19.00**.

Printing and copying facilities will be available during the workshop.

Manuscripts

It is expected that the workshop proceedings will be published in *Biomass and Bioenergy*. Manuscripts will be refereed. Full papers written in English, from both oral and poster presentations will be considered for inclusion in the proceedings. Slide decks will not be included. It is imperative that you follow the "Guide for Authors" as closely as possible in formatting your manuscript. From the home-page (www.elsevier.com/locate/biombioe) click on the Author Gateway (under Authors), and then "Guide for Authors," under the heading Submission Information. Please submit a single electronic version of your final paper to Oana Popescu either: at the workshop; by post (Dept. of Ecosystem Science and Management, 2138 TAMU, Texas A&M University, College Station, TX 77843-2138, USA); or email (opopescu@tamu.edu). **Papers will be accepted until October 31, 2008.**

IEA Bioenergy Task 31 contacts

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Website: <http://www.bioenergytrade.org>

Workshop co-ordination

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