

# Institutional Support



Should you wish to be added to our biomass mailing list please contact the Conference Organisers:



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# 18th European Biomass Conference and Exhibition

## From Research to Industry and Markets

**Cité Internationale  
Centre de Congrès  
Lyon, France**

**Conference 3-7 May 2010**  
**Exhibition 3-6 May 2010**

### Institutional Conference support:

European Commission

ADEME - French Environment and Energy Management Agency

UNESCO - United Nations Educational, Scientific and Cultural Organization, Natural Sciences Sector

WCRE - World Council for Renewable Energy

EUBIA - European Biomass Industry Association

### Coordination of the Technical Programme:

European Commission DG Joint Research Centre

**Call for Papers Deadline: 15 January 2010**

## CONFERENCE GENERAL CHAIRMAN MESSAGE

Dear friends, colleagues and members of the global bioenergy community,

Bioenergy has established a firm position in the global strategies to combat climate change. This position is based on the relative advantages bioenergy has compared to other renewable sources of energy, which are determined by geographical, industrial and socio-economic criteria. To be successful in the energy market, renewable energy has to be competitive with other energy sources offered today. In the efforts to achieve competitiveness, renewable energy options are mainly faced with technological and economic challenges. In addition to these general challenges, bioenergy is confronted with questions related to its feedstock: The competition with other biomass uses (energy vs. food, feed and fibre), as well as the requirement of sustainable biomass production, have begun to dominate the discussions on future energy systems. The issue of sustainable production is – of course – not limited to biomass for energy production.

The debates during the 18th Biomass Conference in May 2010 will be strongly influenced by the outcome of COP15, taking place in Copenhagen in December 2009. Since the deadline for the submission of abstracts is in January 2010, we may expect a range of presentations referring to the consequences of the COP15 outcome for the development of bioenergy systems. Another event will influence the presentations and discussions during the Conference: In June 2010 the Member States of the European Union will deliver their national energy strategies, which will show the role bioenergy is expected to have in the future energy systems within the European Union.

Considering these boundary conditions we may expect another successful event in the series of European Biomass Conferences. The Conference subjects cover the entire range of bioenergy issues: Resource availability, conversion technologies, demonstration projects, integration in the energy system, environmental impact and market deployment as well as the need for policy actions. Presenters and participants will be able to learn about the latest developments in these subjects and to exchange personal views. Together with the opportunity to see practical applications of bioenergy systems in the Exhibition, which has developed into the major exhibition of its kind, this will make it worthwhile to come to Lyon, part of the UNESCO World Heritage and the second largest city of France, a country that has been a forerunner in promoting bioenergy.

Prof. Josef Spitzer  
Joanneum Research Austria  
Chairman of IEA Bioenergy Implementing Agreement

## Where Biomass Science Meets Industrial Application



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Conference General Chairman:  
Prof. Josef Spitzer  
Joanneum Research Austria



Coordination of the Technical Programme:  
European Commission  
DG Joint Research Centre



Jointly realised by:  
ETA-Florence Renewable Energies, Florence, Italy  
WIP-Renewable Energies, Munich, Germany

## PROGRAMME

The five-day programme will comprise:

- ♦ **Plenary lectures** focusing on the state-of-the-art in biomass technologies
- ♦ **Oral and poster presentations** on research, development, demonstration and commercial projects
- ♦ **Exhibition** of biomass products, utilisation and conversion technologies
- ♦ **Fora and workshops**
- ♦ **Scientific tours** and social programme

## CONFERENCE SUBJECTS

### SUBJECT 1: BIOMASS RESOURCES

1.1 **Availability** and **cost** of resources; technical and logistical issues; environmental impact.

1.2 **Production, pretreatment, supply and logistics** of feedstock from conventional agriculture, forestry, animal residues, processing industry and the biodegradable fraction of Municipal Solid Waste (MSW) streams.

1.3 Research on **energy crops**: new cultivars and techniques; cultivation, pre-treatment, supply and logistics; novel crops and **algae**.



### SUBJECT 2: BIOMASS CONVERSION TO HEAT, ELECTRICITY, AND BIO-PRODUCTS

2.1 Thermochemical conversion - **gasification for power** and CHP and polygeneration.

2.2 Thermochemical conversion - **gasification for synthesis gas** production.

2.3 Thermochemical conversion - **pyrolysis** for power, CHP, polygeneration and chemicals.

2.4 Thermochemical conversion - **combustion and co-combustion for large utility and industrial scale applications**, etc.; NOx abatement in power plants.

2.5 Thermochemical conversion - **combustion for small scale applications**: steam engines, Stirling engines, Organic Rankine Cycle, household boilers & stoves, etc.

2.6 **Biological conversion** - fermentation, enzymatic processes; conversion processes for biogas or bio-hydrogen production.

2.7 **Biomass chemistry**: conversion processes to obtain industrial materials, chemicals and bio-products.

### SUBJECT 3: FUELS FROM BIOMASS

3.1 Production, supply and use of **solid biofuels**: chips, pellets, briquettes, etc.

3.2 Production, supply and use of **liquid biofuels from starch and sugar feedstocks**.

3.3 Production, supply and use of **liquid biofuels from oilseeds**.

3.4 Production, supply and use of **gaseous biofuels**.

3.5 Technologies and demonstration of **second generation biofuels**.

### SUBJECT 4: INDUSTRIAL DEMONSTRATION AND MARKET IMPLEMENTATION

4.1 **Biomass fuels for heat and CHP**: process heat, tertiary sector, households, district heating.

4.2 **Biomass fuels in the electricity sector**: utility scale, distributed generation, dedicated bio-power plants.

4.3 **Biofuels in the transportation sector**, distribution and logistics.

4.4 **Biorefineries** and industrial materials, chemicals and bio-products.

4.5 Economics and benefits deriving from **biomass integration**; identification of the most promising bioenergy and bio-products complexes.

4.6 **Market forecasts**: costs of biomass resources and unit cost of energy production; forecasts and technology learning curves.

### SUBJECT 5: POLICIES AND ENSURING SUSTAINABILITY

5.1 **Security of biomass supply**; international biofuels trade; externalities assessment.

5.2 **Sustainability criteria and certification issues**; agricultural and environmental management systems for biomass production; international standards; monitoring.

5.3 **Agro-environmental assessment** of biomass production in temperate and tropical regions.

5.4 **Assessment of secondary effects of bioenergy**: indirect land use change (ILUC), agricultural intensification and associated emissions, commodity markets.

5.5 **Financing of bioenergy projects**; Clean Development Mechanisms (CDM) and Joint Implementation (JI) programmes; venture capital, socio-economic impact.

5.6 **International cooperation** for deployment of the biomass utilisation, bioenergy and biomass based products.

5.7 Role of biomass in the European **National Renewable Energy Action Plans**; international, national, regional and local policies.



## REVIEW PROCEDURE

Papers will be presented in plenary, oral and poster sessions and all presented papers will be published in the Proceedings. Authors wishing to submit a contribution should read the following instructions carefully and send an abstract preferably by using the **Online Submission Form** on [www.conference-biomass.com](http://www.conference-biomass.com) by **15 January 2010**. The abstract, single spaced in English, should include:

- ♦ Applicable subject number (1 to 5) and subsection (e.g. 1.2)
- ♦ Full title
- ♦ Full name and address of one author for all correspondence
- ♦ For each author and co-authors, full name, affiliation, address, phone/fax/e-mail
- ♦ Purpose of the work
- ♦ Approach
- ♦ Scientific innovation and relevance
- ♦ Results
- ♦ Conclusions

The abstract should not exceed one page (size A4, 210 x 297 mm). In addition, authors may add up to 3 explanatory pages, which will facilitate the reviewers assessment.

## DEADLINE FOR RECEIPT OF ABSTRACTS: 15 JANUARY 2010

Only contributions complying with the above specifications will be considered. Please send one copy of this complete information (abstract plus optionally up to 3 explanatory pages) as a \*.doc or \*.pdf file preferably by using the **Online Submission Form** on our Conference website [www.conference-biomass.com](http://www.conference-biomass.com).

For questions concerning abstract submission please contact:  
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The abstracts will not be accessible for the public until the Conference. All authors will be notified of the decision of the Programme Committee. Authors of accepted abstracts will receive special guidelines for the preparation of the final papers for the Proceedings.

## NEWS FOR AUTHORS

**Citability of Papers**: all submitted final papers of plenary, oral and visual presentations will be published online and coded by a digital identifier (DOI code) provided by the German National Library of Science and Technology. This guarantees an unequivocal and permanent identification and citability of all papers of the Conference Proceedings.

**Peer Review**: a selected number of submitted papers will be invited for a Peer Review Process for publication in a renowned scientific journal.