



Latin America Thematic Network on Bioenergy - LAMNET

3rd Project Workshop - Brazil

Workshop Programme

Timing: 2nd December 2002 – 4th December 2002

Site (3-4 Dec): National Confederation of Industry – CNI
Brazilian Banking Sector North (SBN) – Square 1 – Block C
Edifício Roberto Simonsen
70040-903 Brasília – DF, Brazil

This workshop is **organised by WIP-Munich**, Germany, in collaboration with **ETA-Florence**, Italy, and the **Brazilian National Reference Centre on Biomass - CENBIO** within the framework of the LAMNET project funded by the European Commission, DG Research.

Coordinator/ focal contact point:
Dr Rainer Janssen (rainer.janssen@wip-munich.de)

Contents of the Workshop

- Scientific contributions by members of the LAMNET project and invited speakers focus on a variety of aspects in the field of bioenergy such as innovative biofuels, sustainable biomass energy policies in Germany, biomass derived ethanol use in Costa Rica, biomass based decentralised energy supply systems and biofuel driven micro-turbines.
- Additionally, this workshop includes a Thematic Priority Session on ethanol driven fuel cells with presentations by internationally renowned experts.
- On 2nd December a technical tour is organised to the CTC – Copersucar Technology Center, the world's most advanced research and development center in the sugar and ethanol sector.
- Updated information on this workshop will be available at www.wip-munich.de, www.etaflorence.it and at www.bioenergy-lamnet.org.



Important Contact Addresses

Support in Accommodation, Transfers and Airline Tickets

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Support in Workshop Organisation in Brazil

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MONDAY 2nd DECEMBER 2002

Technical Tour: 07:00 – 16:00

This technical tour organised in the framework of the 3rd LAMNET project workshop visits the Copersucar Technology Center – CTC, one of the most advanced centers in the world focussed on the development of agricultural and industrial technology for the sugar cane industry. The CTC is located in Piracicaba/SP around 200 km west of São Paulo.

Programme of the Technical Tour:

07:00: Departure by bus from Radisson Faria Lima Hotel
Address: Hotel Radisson Faria Lima, Av. Cidade Jardim 625

09:00: Arrival at CTC and beginning of the tour

Introductory presentation of CTC activities by Manoel Regis L. V. Leal, Head of the Industrial Technology department

Presentation on recent research and development efforts in the ethanol production sector by Jaime Finguerut, Industrial Technology department

Guided tour to the research and technological development facilities of the Copersucar Technology Center by Manoel Regis L. V. Leal and Tadeu Andrade, CTC Technology Manager.

13:00: Lunch at CTC

14:00: Return to São Paulo by bus

Transfer to Brasilia from Congonhas Airport

TUESDAY 3rd DECEMBER 2002

Inauguration Session: Welcome, Bioenergy Strategies and Policies

Moderators: José Moreira, CENBIO and Rainer Janssen, WIP

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| 09:00 – 09:20 | Welcome Address
José Moreira, CENBIO, Brazil |
| 09:20 – 09:50 | Inauguration Address
Mr. Marcelo Khaled Poppe, Ministry of Mines and Energy, Brazil |
| 09:50 – 10:15 | LAMNET – A Global Network on Bioenergy – Strategies and Results
Rainer Janssen, WIP, Germany |
| 10:15 – 10:45 | Sustainable energy supply for Germany – Results of the Enquete Commission of the German Parliament
Harry Lehmann, Institute for Sustainable Solutions and Innovations, Germany |
| 10:45 – 11:15 | Coffee Break |
| 11:15 – 11:45 | Sugar Cane as a Perfect Biomass for Energy
Luiz Carlos Corrêa de Carvalho, União da Agroindústria Canavieira de São Paulo-UNICA, Brazil |
| 11:45 – 12:15 | Densification of biomass vegetable residues
Leonardo N. Conde, Bio Energy Company do Brazil S/A |
| 12:15 – 13:15 | Panel Discussion: Impact of the World Summit on Sustainable Development in Johannesburg on the Future of Bioenergy; Moderator: José Moreira, CENBIO
Panellists: Suani T. Coelho, Giuliano Grassi, Harry Lehmann, Wolfgang Palz, Hon. Rivacoba (Ambassador of Cuba in Brazil) |
| 13:15 – 14:15 | Lunch Break |

Afternoon Session: Biofuels and Sustainable Electricity Generation in Latin America

Moderators: Suani T. Coelho, CENBIO

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| 14:15 – 14:45 | Innovative Fuels and Biomass Resources
Nasir El Bassam, Federal Agricultural Research Centre, Germany |
| 14:45 – 15:15 | The potential of ethanol use in fuel substitution in Costa Rica
Leiner Vargas, CINPE-U.N.A., Costa Rica |
| 15:15 – 15:45 | Sugar Cane Biomass Alternatives for Electricity Generation
Antonio Valdes, GEPROP – Centre for Managing Prioritised Programmes and Projects, Ministry for Science, Technology and Environment, Cuba |
| 15:45 – 16:15 | Coffee Break |
| 16:15 – 16:45 | Development of Bio-oil production plants in Brazil
Guilherme Machado, BTG de Centro América, Brazil |
| 16:45 – 17:15 | Biomass Fermentation: Fermentogas – the clean Fuelsaver
Markus Real, Omega Real Ltd, Brazil |
| 17:15 – 17:30 | Current Status and Opportunities of the LAMNET Project Database
Anton Hofer, WIP, Germany |
| 17:30 – 18:30 | Discussion Round: Results and future activities of the LAMNET project
Moderator: Rainer Janssen, WIP, Germany |

WEDNESDAY 4th DECEMBER 2002

Morning Session: Ethanol Based Fuel Cell Technologies

Moderator: Newton Pimenta Neves Jr., National Reference Center for Hydrogen Energy – CENEH, Brazil

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| 09:00 – 09:30 | Introductory Lecture: Principle and Applications of Fuel Cells
Wolf Vielstich, University of São Paulo (USP), Brazil |
| 09:30 – 10:00 | The production of hydrogen from ethanol for fuel cells
Monica Saraiva Panik, Ballard Power Systems, Germany |
| 10:00 – 10:30 | Coffee Break |
| 10:30 – 11:00 | Research on the reforming of ethanol
Peter Hübner, Fraunhofer Institut für Solare Energiesysteme – ISE, Germany |
| 11:00 – 11:30 | Direct electro-chemical oxidation of ethanol for the application in fuel cells
Teresa Iwasita, University of São Paulo (USP) – Institute of Chemistry, Brazil |
| 11:30 – 12:30 | Panel Discussion: Challenges and opportunities of ethanol based fuel cells
Moderator: Peter Hübner, ISE, Germany
Panellists: Newton Pimenta Neves Jr., Wolf Vielstich, Monica Saraiva Panik, |
| 12:30 – 13:30 | Lunch Break |

Afternoon Session: Innovative Bioenergy Technologies

Moderators: Osvaldo S. Martins, CENBIO

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| 13:30 – 14:00 | Decentralised energy self-sufficient supply and disposal systems
Susanne Kimmich, Institut für Solare Energieversorgungstechnik e.V. – ISET, Germany |
| 14:00 – 14:30 | Technological and economical analysis of innovative bioenergy systems
Giuliano Grassi, European Biomass Industry Association - EUBIA |
| 14:30 – 15:00 | Republic of South Africa: Renewable Energy Strategy
Denis Tomlinson, Illovo Sugar, South Africa |
| 15:00 – 15:30 | Coffee Break |
| 15:30 – 16:00 | Pellets derived from biomass residues – a new market perspective
Francesco Cariello, ETA-Florence, Italy |
| 16:00 – 16:20 | Opportunities for biofuel driven micro-turbines
Rainer Janssen, WIP, Germany |
| 16:20 – 17:20 | Discussion Round: Summary of the workshop and outlook
Moderator: Rainer Janssen, WIP, Germany |

THURSDAY 5th DECEMBER 2002

Seminar on Climate Change – Brazil 2002

This seminar focuses on the activities of Working Group III (Mitigation of Climate Change) of the Intergovernmental Panel on Climate Change – IPCC. In order to make results and findings of the IPCC's Assessment reports on emissions, methodologies and technology transfer available to a broader Brazilian public a series of seminars is organised by the Brazilian institutions CENBIO, CentroClima and BRASUS within the framework of a specific national dissemination project.

Date and venue of the 3rd LAMNET workshop in Brasilia have been chosen in a way that all LAMNET members are given the chance to participate in this seminar on Climate Change and benefit from complementary themes and activities.

08:30 – 09:00	Registration
09:00 – 09:30	Opening Fábio Feldmann, Executive Secretary Brazilian Forum on Climate Change Armando de Queiroz Monteiro Neto, President CNI José Roberto Moreira, President CENBIO Suzanne Maia, President BRASUS Emílio Lèbre La Rovere, Executive Coordinator CentroClima – COPPE/UFRJ Annick Osthoff, IPCC Working Group III Hon. Robert H. Meys, Ambassador of The Netherlands
09:30 – 10:10	The international context of climate change Gylvan Meira Filho, Secretariat for Policies and Science and Technology Programs
10:10 – 10:50	IPCC special working group on Emission Scenarios Emílio Lèbre La Rovere, IPCC Principal Author
11:10 – 11:50	IPCC special working group on Transfer of Technology Sérgio C. Trindade, President SE2T International, Coordinating Author of IPCC
11:50 – 12:30	IPCC Working Group III – Mitigation of Climate Change José Roberto Moreira, President of Council - CENBIO, Coordinating Author of IPCC

Afternoon Session: Presentation of the national IPCC dissemination project working groups on Agroforestry, Industry and Municipalities

14:30 – 15:10	Report on the activities of the project working group on agroforestry Maria de Lourdes O. Freitas, IMAH
15:10 – 15:40	Report on the activities of the project working group on industry Paulo Serna, Rio LIGHT
15:40 – 16:10	Report on the activities of the project working group on municipalities Isaura Fraga, FGV
16:30 – 17:00	The national context of Climate Change Fábio Feldmann, Brazilian Forum on Climate Change

LAMNET Project Coordination

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