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
Edificio Roberto Simonsen
70040-903 Brasilia – 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

DISKLINE CÂMBIO E TURISMO LTDA
Rua da Consolação, 3741 – 11°. A.
São Paulo, Brazil

Contact Person:
Ms. Nanci Silos
Email: nanci@diskline.com.br

Support in Workshop Organisation in Brazil

CENBIO – Centro Nacional de Referência em Biomassa
Av. Prof. Luciano Gualberto, 1289
São Paulo, 05508-010, Brazil

Contact Person:
Mr. Armando Gomez Filho
Email: briquete@iee.usp.br

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

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

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

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

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

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 Senarios
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

WIP
Sylvensteininstr. 2
81369 Munich
Germany
Coordinator: Dr. Rainer Janssen
Phone: +49 89 720 12 743
Fax: +49 89 720 12 791
E-mail: rainer.janssen@wip-munich.de
Web: www.wip-munich.de

LAMNET Coordination Support Point
South America

CENBIO – Centro National de Referência em Biomassa
Avenida Prof. Luciano Gualberto 1289
05508-900 São Paulo
Brazil
Contact: Prof. Dr. José Roberto Moreira
Phone: +55 115 531 1844
Fax: +55 115 535 3077
E-mail: Bun2@tsp.com.br
Web: www.cenbio.org.br

LAMNET Coordination Support Point
Central America

Universidad Nacional Autónoma de México
Instituto de Ecología
AP 27-3 Xangari
58089 Morelia, Michoacán, México
Contact: Dr. Omar Masera
Phone: +52 55 5623 2709
Fax: +52 55 5623 2719
E-mail: omasera@oikos.unam.mx
Web: www.oikos.unam.mx/gira

LAMNET Coordination Partner

ETA – Energia Trasporti Agricoltura
Piazza Savonarola, 10
50132 Florence
Italy
Contact: Ms. Angela Grassi
Phone: +39 055 500 2174
Fax: +39 055 573 425
E-mail: angela.grassi@etaflorence.it
Web: www.etaflorence.it

LAMNET Coordination Partner

EUBIA – European Biomass Industry Association
Rond Point Schuman, 6
1040 Brussels
Belgium
Contact: Dr. Giuliano Grassi
Phone: +32 2 28 28 420
Fax: +32 2 28 28 424
E-mail: eubia@eubia.org
Web: www.eubia.org

LAMNET Steering Committee

Contact: Dr. Peter Helm
E-mail: peter.helm@wip-munich.de

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