

Latin America Thematic Network on Bioenergy - LAMNET

3rd Project Workshop - Brazil

Timing: 2nd December 2002 – 4th December 2002

Location (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

WORKSHOP PHOTOGRAPHS – Part 3



This workshop was **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.

LAMNET - Latin America Thematic Network on Bioenergy

Coordination: WIP, Germany

Coordinator/ focal contact point:

Dr. Rainer Janssen (rainer.janssen@wip-munich.de)

Updated information on this workshop is available at www.wip-munich.de, www.etaflorence.it and at www.bioenergy-lamnet.org.

Workshop Organisation Support

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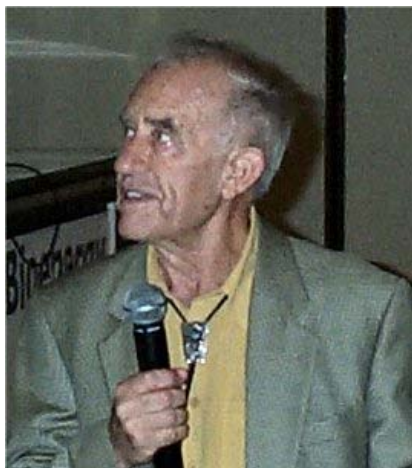
Editor of Workshop Proceedings

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Speakers of the 3rd Project Workshop in Brazil

WEDNESDAY 4th DECEMBER 2002 – Thematic Session: Ethanol Based Fuel Cell Technologies



Prof. Wolf Vielstich, University of São Paulo – Chemistry Institute of São Carlos, presented a lecture on the principle and application of fuel cells.



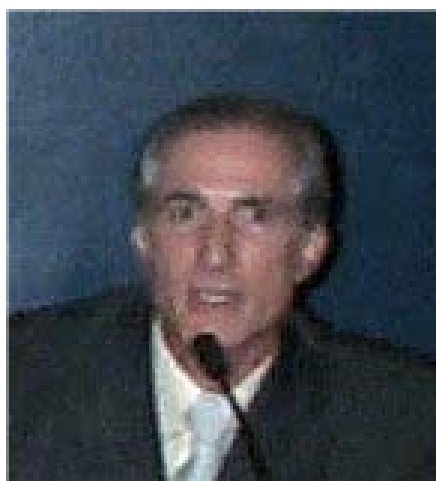
Monica Saraiva Panik, Ballard Power Systems AG, Germany, stated that fuel cell technology will strengthen the future of ethanol as a fuel for automotive application in Brazil.



Dr. Peter Hübner of the Fraunhofer Institut für Solare Energiesysteme (ISE), Germany, presented the results of a research project on the reforming of ethanol into hydrogen rich gas.



Prof. Teresa Iwasita, University of São Paulo – Chemistry Institute of São Carlos, reported on direct electro-chemical oxidation of ethanol for the application in fuel cells.



Dr. Newton Pimenta Neves Jr. of the Brazilian National Reference Center for Hydrogen Energy (CENEH) reported on challenges and opportunities of ethanol based fuel cells.

WEDNESDAY Afternoon Session: Innovative Bioenergy Technologies



Susanne Kimmich, Institut für Solare Energieversorgungstechnik e.V. (ISET), Germany, presented newly developed decentralised energy self-sufficient supply and disposal systems.



Denis Tomlinson, Illovo Sugar Ltd, South Africa, reported on the Renewable Energy Strategy of the Republic of South Africa.



Francesco Cariello, ETA-Florence, Italy, presented a new market perspective offered by pelletisation of biomass residues.