

2<sup>nd</sup> International Symposium

# New Energy for the South

1-2 April 2003

(+ Study Tour on 3 April 2003)

Wissenschaftspark Gelsenkirchen



organized by



supported by:



Ministerium für  
Verkehr,  
Energie und  
Landesplanung  
des Landes  
Nordrhein-West

co-organized by:



sponsored by:



## Overview

### Tuesday, 1 April 2003

- 9:30 Opening Plenary (Glas arcade of the Science Park)
- 11:15 Health Break / Press Conference / Exhibition
- 11:45 Opening Plenary
- 13:00 Lunch Break / Exhibition
- 14:00 Forum A: Clean Energy Technology  
Transfer: New Era after Johannesburg?  
Health Break ca. 15:45
- Forum B: Rural Electrification with Photovoltaics  
Health Break ca. 15:45
- 18:00 Transfer by bus to Zeche Zollverein in Essen
- 18:30 Guided Tour to Zeche Zollverein (UNESCO World Cultural Heritage since 2002)
- 19:30 Dinner Reception at Zeche Zollverein („Kunstschacht“)
- 22:00 Transfer to Gelsenkirchen (bus-shuttle to Maritim Hotel / Science Park)

### Wednesday, 2 April 2003

- 9:00 Forum C: 'Focus on China' Technologies and Markets  
Health Break ca. 10:45
- Forum D: Fuel Cells and Hydrogen Technologies  
Health Break ca. 10:45
- 13:00 Lunch Break / Exhibition
- 14:00 Forum C: 'Focus on China' Solar Planning and Building  
Health Break ca. 15:45
- Forum E: Bioenergy  
Health Break ca. 15:45
- 17:30 End of Symposium

### Thursday, 3 April 2003

- 8:30 Study Tours (Departure: MARITIM Hotel Gelsenkirchen)
- Solar Energy      Bioenergy      Fuel Cells
- 18:00 End

### Organizer:

Wissenschaftspark Gelsenkirchen GmbH  
Munscheidstr. 14  
D- 45886 Gelsenkirchen  
Germany

Tel.: 0209-167-1005

Fax: 0209-167-1001

[www.wipage.de](http://www.wipage.de)

Conference web site: [www.solartransfer.de](http://www.solartransfer.de)



## Invitation

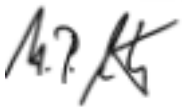
At the beginning of the 21<sup>st</sup> century, more than 1.6 billion people worldwide still have no access to electricity. 2.4 billion people depend on the use of traditional biomass (wood, agricultural residues and dung) for cooking and heating – often with serious consequences for their health and the local environment. “Energy poverty” has become a major impediment to the development of rural areas in developing countries, where the majority of those people live. At the same time, energy consumption is rapidly increasing in the growing metropolitan areas of the South – going along with a dramatic decline in urban air quality.

Clean energy technologies can help to overcome both the lack of access to basic energy services and the environmental and health problems caused by the inefficient use of conventional energy technologies. In order to exploit the full potential of clean energies, dissemination strategies have to be integrated into an overall concept for sustainable development of rural and urban areas.

Participating in this venture has become a major challenge and opportunity for clean energy industries, which are rapidly growing in many industrialized countries. A key to success – beyond well established factors like political and legal framework conditions, financing options etc. – is the development of personal and trustful relationships between potential project partners in North and South.

The 2<sup>nd</sup> International Symposium “New Energies for the South” aims at stimulating new partnerships and enhancing technology transfer to developing countries. The programme includes 40 speakers coming from 13 different countries, an exhibition and three full day-study tours to demonstration projects in the Ruhr area, one of Europe’s leading energy regions.

We look forward to your visit in the Solar City Gelsenkirchen



Dr. H.P. Schmitz-Borchert  
Managing Director  
Wissenschaftspark Gelsenkirchen



Wolfgang Jung  
Conference Manager

## Programme

**Tuesday, 1 April 2003**

from 8:30: Check-in

### Opening Plenary (Glass arcade)

*Conference languages: English and German (simultaneous translation)*

9:30 **Welcome / Chair**

Dr. H.P. Schmitz-Borchert, Managing Director,  
Wissenschaftspark Gelsenkirchen

**Welcome Address**

Oliver Wittke, Mayor, City of Gelsenkirchen

9:50 **Energy and climate policy of the state of Nordrhein-Westfalen**

Jörg Hennerkes, Vice Minister for Transport, Energy and  
Spatial Planning, State of Nordrhein-Westfalen

10:10 **Germany's international initiative on renewable and efficient energy technologies**

Heidemarie Wieczorek-Zeul, German Minister for Economic  
Cooperation and Development

10:40 **The role of The World Bank in clean energy technology transfer**

Jamal Saghir, Director Energy and Water, The World Bank

11:15 Health Break / Press Conference / Visit of Exhibition

11:45 **Sino-German cooperation on clean energies**

Dr. Ma Canrong, Ambassador of the People's Republic of  
China to Germany, Berlin (to be confirmed)

**Technology transfer: The view of the european photovoltaic industry**

Dr. Winfried Hoffmann, Managing Director, RWE Schott  
Solar & Senior Vice President, European Photovoltaic  
Industry Association (EPIA)

**The IRENA-Initiative (International Renewable Energy Agency)**

Dr. Hermann Scheer, Member of German Bundestag &  
President Eurosolar

13:00 Lunch Break / Visit of Exhibition

# Programme

## Forum A: Clean Energy Technology Transfer: New Era after Johannesburg?

- 14:00 **Chair and introduction:**  
Prof. Dr. José Goldemberg, Secretary of State for the Environment, Sao Paulo State, Brazil
- Private sector participation: Obstacles and opportunities**  
Philippe de Renzy-Martin, Managing Director, Shell Solar International
- Supporting private sector involvement: The German export initiative on renewable energy technologies**  
Stephan Kohler, Managing Director, Deutsche Energieagentur (DENA)
- Discussion**
- 15:30 Health Break / Visit of Exhibition
- 16:00 **CDM - Newsupport for project finance?**  
Stanford Mwakasonda, Energy Research and Development Centre (EDRC), University of Cape Town, South Africa
- Building capacities for sustainable energy**  
Klaus Knecht, Project Manager, InWEnt - Capacity Building International
- Global Network on Energy for Sustainable Development (GNESD)**  
Mark Radka, Energy Programme Coordinator, United Nations Environment Programme (UNEP), Paris
- Discussion**
- 17:30 End

## Forum B: Rural Electrification with Photovoltaics

- 14:00 **Chair and introduction**  
Prof. Dr. Jürgen Schmidt, Institut für Solare Energieversorgungstechnik (ISET), University of Kassel (Session Chair)
- Solar Home Systems and PV-Hybrids: Trends in technology, project design and economics**
- PV in India – About the relevance of the legal and institutional framework**  
Akanksha Chaurey, Tata Energy Research Institute (TERI), India
- PV-Projects of The World Bank: Lessons learned/ best practice**  
Anil Cabraal (ASTAE, World Bank)
- Discussion**
- 15:30 Health Break / Visit of Exhibition
- 16:00 **Training – the key to success in PV**  
Ian Draisey, Dulas Solar Ltd.
- PV Power for villages in Vietnam**  
Oussama Chehab, Flabeg Solar International
- PV in southern Africa: Sustainable concepts and products**  
Burkhard Holder, Solarfabrik AG
- Discussion**
- 17:30 End
- 18:00 Transfer by bus to Zeche Zollverein in Essen-Katernberg
- 18:30 **Zeche Zollverein** (UNESCO world cultural heritage). Guided Tour (Starting point: "Kunstschacht")
- 19:30 **Dinner Reception** at Zeche Zollverein (Kunstschacht)  
**Message of Greeting**  
Hartmut Krebs, Vice Minister for Science and Research, State of Nordrhein-Westfalen
- from Bus-Shuttle to Gelsenkirchen  
22:00 (MARITIM Hotel / Wissenschaftspark)

# Programme

Wednesday, 2 April 2003

## Forum C: "Focus on China". Part I: Technologies and Markets

- 9:00 **Chair and Introduction:**  
Dr. Rolf Posorski, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ)
- Renewables in China: Market developments & potentials; institutions & legislation.**  
Prof. Dr. Ma Shenghong, Beijing Jikedian Renewable Energy Development Center
- Development of renewable energies in China**  
Shi Lishan, Director, Division on Renewable Energies, State Development and Planning Commission (SDPC)
- World Bank PV Programmes in China**  
Anil Cabraal (ASTAE, World Bank) (Statement)
- China's solar thermal industry. Threat or opportunity for european companies?**  
Li Hua, Programme Advisor on Sustainable Energy, Novem (The Netherlands Agency for Energy and the Environment)
- Discussion**
- 11:00 Health Break / Visit of Exhibition
- 11:30 **Solar cooling**  
Prof. Dr. Rainer Braun, Energy Institute, University of Applied Sciences Gelsenkirchen
- Efficient room heating concepts**  
Volker Both, Vaillant GmbH
- EU-China partnership in CDM implementation**  
Ralf Goldmann, Berliner Energieagentur
- Discussion**
- 13:00 Lunch Break / Visit of Exhibition

## Forum C: "Focus on China". Part II: Solar Planning and Building

- 14.00 **Chair and Introduction:**  
Dr. Magdala Gronau, AG Solar NRW
- City of Beijing: Energy Situation & Technology Needs**  
Ms. Jiang Chunquin, Director, Beijing Agenda 21, City of Beijing & State Development and Planning Commission (SDPC)
- Green Olympics Beijing 2008**  
Mr. Yu Xiaoxuan, Director, Environment Department, Olympic Committee 2008
- Solar city. From theory to practice**  
Herbert Girardet, Chairman, Schumacher Society UK and Solar City London, UK
- Discussion**
- 15:30 Health Break / Visit of Exhibition
- 16.00 **Solar housing and living areas**  
Dr. Alfred Moser, ETH Zürich
- Sustainable building design**  
Prof. Dr. Klaus Daniels, HL Technik AG
- Solar housing: Programmes and projects in Nordrhein-Westfalen**  
Frank Wouters, Managing Director, Ecofys GmbH
- Discussion**
- 17:30 End of Symposium

# Programme

## Forum D: Fuel Cells & Hydrogen – Leapfrog Technology for Developing Countries?

- 9:00 **Chair and Introduction:**  
Prof. Dr. B. Hoehlein, FZ Jülich  
**Fuel cell and hydrogen technologies: State of the art, market potential, system integration**
- Solar hydrogen economy: benefits for the South?**  
Dr. Wolfram Krewitt, Deutsches Zentrum für Luft- und Raumfahrt e.V.
- Fuel cell buses for megacities: First step to fuel cell industries in the South?**  
Richard Hosier, Principal Technical Advisor for Climate Change, UNDP-GEF (to be confirmed)
- Discussion**
- 10:45 Health Break / Visit of exhibition
- 11:15 **Energy-chain “Wind-hydrogen-fuel cells”: Concept for Patagonia**  
Prof. Dr. Erico Spinadel, Argentina Wind Energy Association / University of Buenos Aires; Klaus Knecht, InWEnt – Capacity Building International
- Fuel cells and hydrogen: research and development activities in China**  
Prof. Dr. Zhang Huamin, China Academy of Sciences
- NRW Fuel Cell Network: Model for cooperation between science and business**  
Dr. Andreas Ziolek, NRW Fuel Cell Network
- Independent energy supply with renewables and fuel cells**  
Dr. Bernd Pitschak & Prof. Dr. Karl Klug, Hydrogenics Europe
- Discussion**
- 13:00 Lunch Break / Visit of exhibition

## Forum E: Bioenergy

- 14.00 **Chair and Introduction:**  
Dr. Gustavo Best, Senior Energy Coordinator, Sustainable Development Department, FAO  
**Bioenergy for sustainable development of rural areas**
- Biomass – The oil of the poor. Sugarcane biomass in Brazil**  
Prof. Dr. José Goldemberg, Secretary of State for the Environment, Sao Paulo State, Brazil
- Bioenergy - tools for regional supply analysis and project implementation**  
R.D.Linden, DENARO Energiesysteme GmbH
- Discussion**
- 15:30 Health Break / Visit of Exhibition
- 16.00 **The Blue Tower: Energy and hydrogen from biomass through staged reforming**  
Dr. Heinz-Jürgen Mühlen, Dr. Mühlen GmbH & Co.KG
- Bioenergy in China**  
Prof. Dr. Yuan Zhenhong, China Biomass Development Center, Ministry of Sciences & Technology (MOST)
- Biogas installations – from biological waste to biogas**  
Dr. Dorothee Dittrich, Hese-Umwelt GmbH
- Discussion**
- 17:30 End of Symposium

## Programme

### New Energy for the South: Technologies and Transfer Activities

Exhibition (parallel to the conference, 1-2 April)  
Glass arcade of the Science Park,

Free access. No stand costs for companies and institutions participating in the conference.  
Basic equipment (tables, chairs, walls for posters) will be provided.

For registration or further information please email to [jung@wipage.de](mailto:jung@wipage.de)

### Thursday, 3 April 2003: Study Tours

Departure: 8.30 am, MARITIM Hotel Gelsenkirchen

#### Solartour

Introduction / Tour guide: Wolfgang Jung, Wissenschaftspark Gelsenkirchen
1. Shell Solar, Gelsenkirchen: Solar cell production line
2. Flabeg Solar International, Gelsenkirchen: Solar module production line
3. Solar housing: "Sonnenhof" - First solar residential area in The Ruhr, Gelsenkirchen
4. Arena AufSchalke: 400 m2 PV-sail / Lunch
5. Innovationszentrum Wiesenbusch, Gladbeck: Competence center for solar thermal and geothermal energy (incl. solar cooling)
6. Academy Mt. Cenis, Herne: Solar architecture/ building integrated photovoltaics. 1 MW-PV plant, pitgas-driven cogeneration plant, innovative battery storage system
18.00 End (Gelsenkirchen: Main station, Wissenschaftspark, MARITIM Hotel)

#### Fuel Cell Tour

Introduction / Tour guide: Dr. Thomas Stephanblome, Managing Director, EUS GmbH
1. Fraunhofer UMSICHT Oberhausen: PEM Fuel Cell + minegas fired microturbine
2. METEORIT in Essen: Demonstration center for fuel cell technologies (RWE AG)
3. Brewery "Im Füchsen", Düsseldorf: PEM Fuel Cell for energy supply of residential buildings, Pilot Project of Vaillant.
16.30 End (Düsseldorf Main Station)
17.30: Gelsenkirchen MARTIM Hotel)

## Bioenergy Tour

Introduction / Tour guide Leonhard Thien, State Initiative on Future Energies NRW
1. Biogas-Plant, Herten: Energy from biological residues
2. The "Blue Tower"-Pilot Plant, Herten: Energy and hydrogen from biomass through staged reforming
3. "Haus Vogelsang" in Datteln-Ahsen: Heat supply of a farm based on wood-chips, vehicle fleet based on bio-fuels and bio-lubricants.
4. "Hof Leuck" in Dorsten-Lembeck: Biogas demonstration plant
18.00 End (Gelsenkirchen Main Station / MARITIM Hotel)

## Information

### Travel and Accommodation

Gelsenkirchen is 45 km from Düsseldorf International airport (DUS) and can be reached from there by train or taxi in about 30 minutes. Another option is Frankfurt International Airport (FRA). From there, the new Intercity Express (ICE) train takes 2 hrs. to reach Gelsenkirchen (250 km). The venue (Wissenschaftspark Gelsenkirchen) is in walking distance from Gelsenkirchen station (10 minutes).

Directions to the venue: [www.wipage.de](http://www.wipage.de) > English > How to find us

Train schedule: See [www.bahn.de](http://www.bahn.de) > International Guests

Rooms for special rates (Ref. "New Energy") are available at

MARITIM Hotel  
Am Stadtgarten 1  
45879 Gelsenkirchen  
Tel.: +49 (0)209.176-0  
Fax: +49 (0)209.176-2091  
[www.maritim.de](http://www.maritim.de)

Rate per night including breakfast and 16% VAT:

- Single room: 66 Euro
- Double room: 92 Euro

On both conference days (1+2 April 2003) there is a free bus-shuttle from MARITIM to the venue (Wissenschaftspark Gelsenkirchen, 10-minutes ride) from 8.30 am to 9.30 am.

### Fees

Symposium: 1 <sup>st</sup> day only (Tuesday, April 1st, 2003, incl. dinner reception)	150 Euro
Symposium: 2 <sup>nd</sup> day only (Wednesday, April 2 <sup>nd</sup> )	120 Euro
Symposium: 1 <sup>st</sup> + 2 <sup>nd</sup> day	250 Euro
Study Tour (Thursday, April 3 <sup>rd</sup> )	50 Euro
Symposium (both days) + Study Tour	280 Euro
	+ 16% VAT

### Contact

Organizer: Wissenschaftspark Gelsenkirchen

Conference Office:

Tel.: +49-209.167.1005

Fax: +49-209.167.1001

E-mail: [jung@wipage.de](mailto:jung@wipage.de)

# Registration:

Please fax back to +49 (0) 209.167-1001

## Conference Fees

<input type="checkbox"/>	Symposium: 1 <sup>st</sup> day only (Tuesday, April 1 <sup>st</sup> , 2003, incl. dinner reception)	150 Euro
<input type="checkbox"/>	Symposium: 2 <sup>nd</sup> day only (Wednesday, April 2 <sup>nd</sup> )	120 Euro
<input type="checkbox"/>	Symposium: 1 <sup>st</sup> + 2 <sup>nd</sup> day	250 Euro
<input type="checkbox"/>	Study Tour (Thursday, April 3 <sup>rd</sup> )	50 Euro
<input type="checkbox"/>	Symposium (both days)+ Study Tour	280 Euro
<b>Total</b>		
		<b>+ 16% VAT</b>

I plan to participate in the following parts of the conference (*please mark !*)

<b><u>Tuesday, 1 April 2003</u></b>		
<b>Forum A:</b> Clean Energy Technology Transfer: New Era after Johannesburg?	<input type="checkbox"/>	<b>Forum B:</b> Rural electrification with Photovoltaics <input type="checkbox"/>
<b>Dinner Reception</b>	<input type="checkbox"/>	
<b><u>Wednesday, 2 April 2003</u></b>		
<b>Forum C, Part I:</b> 'Focus on China': Technologies and Markets	<input type="checkbox"/>	<b>Forum D:</b> Fuel Cells & hydrogen <input type="checkbox"/>
<b>Forum C, Part II:</b> 'Focus on China' Solar Planning and Building	<input type="checkbox"/>	<b>Forum E:</b> Bioenergy <input type="checkbox"/>
<b><u>Thursday, 3 April: Study Tour</u></b>		
Solar Energy <input type="checkbox"/>	Bioenergy <input type="checkbox"/>	Fuel Cells <input type="checkbox"/>

Mr. / Ms.

Name (incl. Title)

First Name

Company / Organization

Position / department

street/postal code/city/country

street/postal code/city/country (cont.)

Phone

Fax

E-Mail

place/date/signature

### Terms and conditions:

The conference fee includes conference documents, access to conference sessions, simultaneous translation (German-English/English-German), meals and drinks.

The fee plus a currently applicable VAT rate of 16% is due upon receipt of the invoice, which will be mailed to you together with the confirmation of your registration.

Written cancellations are free of charge until 14 March 2003. After that date, the full conference fee is due. In case of cancellation, a substitute delegate is accepted.

The conference programme is subject to change. The number of delegates is limited. Registrations are considered in the order they are received. Please fill in one registration form for each delegate.

**Registration Office:** +49 (0)-209.167-1005

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