



## ***International Workshop***

# ***'Improved Energy Crop and Agroforestry Systems for Sustainable Development in Africa'***

*on the occasion of the ICSU 'International Field Workshop on Renewable Energy for  
Sustainable Development in Africa' (18-21 June 2007)*

***22 June 2007***

***Mauritius***

## ***Workshop Programme***

### ***Workshop Venue:***

Mauritius Sugar Industry Research Institute (M.S.I.R.I.)  
Moka Road, Le Reduit, Mauritius  
Internet: [www.msiri.mu](http://www.msiri.mu)

### ***Workshop coordinators/contact points:***

Dr. Rainer Janssen, WIP, Germany ([rainer.janssen@wip-munich.de](mailto:rainer.janssen@wip-munich.de))  
Dr. Helen Watson, University of KwaZulu-Natal, South Africa ([Watsonh@ukzn.ac.za](mailto:Watsonh@ukzn.ac.za))

### ***Workshop Objectives***

The main objective of this workshop is to evaluate opportunities of improved land use (energy crops, improved agroforestry systems) for the sustainable production of modern bioenergy services in the African context.

Special emphasis will be given to mechanisms ensuring the economic, social and environmental sustainability of future bioenergy production and use, as well as the development of innovative financing tools and practical, targeted and efficient policies.

This workshop is organised in the framework of the Competence Platform on Energy Crop and Agroforestry Systems for Arid and Semi-arid Ecosystems – Africa (COMPETE).



COMPETE is co-funded by the European Commission in the 6<sup>th</sup> Framework Programme – Specific Measures in Support of International Cooperation (INCO-CT-2006-032448).

## The COMPETE Project



### **COMPETE Objectives**

The Competence Platform on Energy Crop and Agroforestry Systems for Arid and Semi-arid Ecosystems – Africa (COMPETE) will establish a **platform for policy dialogue and capacity building** and identify **pathways for the sustainable provision of bioenergy**

- to improve the quality of life and create alternative means of income for the rural population in Africa
- to aid the preservation of intact ecosystems in arid and semi-arid regions in Africa
- to enhance the equitable exchange of knowledge between EU and developing countries

### **COMPETE Activities**

COMPETE will deliver a matrix of multi-disciplinary and cross-sectoral work-packages

- to evaluate current and future potential for the **sustainable provision of bioenergy** in Africa in comparison to existing land use patterns and technologies
- to facilitate **South-South technology and information exchange** capitalising the world-leading RD&D in bioenergy in the key countries Brazil, Mexico, India, China and Thailand
- to develop **innovative tools for the provision of financing** for national bioenergy programmes and local bioenergy projects, including: carbon credits, bilateral and multi-lateral funding instruments, and the role of international trade
- to develop **practical, targeted and efficient policy mechanisms** for the development of bioenergy systems that enhance local value-added, assist local communities and address gender inequalities
- to establish the **Competence Platform** to ensure effective dissemination and knowledge exchange inside and outside the network

### **COMPETE Partnership**

The COMPETE partnership comprises 20 European and 23 non-European partners - 11 partners from 7 African countries, 3 regional African policy and financing bodies (African Development Bank; Food, Agriculture and Natural Resources Policy Analysis Network of Southern Africa; UEMOA - Biomass Energy Regional Program), 9 partners from Latin America and Asia - and the Food and Agriculture Organisation of the United Nations (FAO).

COMPETE Website: [www.compete-bioafrica.net](http://www.compete-bioafrica.net)

## **Workshop Organisation**

This international workshop is organised by the University of KwaZulu-Natal, South Africa and WIP Renewable Energies, Germany in the framework of the **project COMPETE, funded by the European Commission, DG Research.**

This COMPETE workshop will take place on the occasion of the ICSU 'International Field Workshop on Renewable Energy for Sustainable Development in Africa' (18-21 June 2007). This international field workshop on the utilizations of renewable energy in Africa is organised by the ICSU (International Council for Science) Regional Office for Africa and the Mauritius Sugar Industry Research Institute (MSIRI)/University of Mauritius, in collaboration with the AU, UNECA, NASAC/AAS/TWAS and UNESCO.

Participants of the ICSU 'International Field Workshop on Renewable Energy for Sustainable Development in Africa' are cordially invited to participate in and contribute to the COMPETE workshop on 'Improved Energy Crop and Agroforestry Systems for Sustainable Development in Africa'.

### **COMPETE workshop coordinators/contact points:**

Dr. Rainer Janssen, WIP Renewable Energies, Germany  
Tel.: +49 89 720 12743  
Fax +49-89-720 12 791  
Email: rainer.janssen@wip-munich.de

Dr. Helen Watson, University of KwaZulu-Natal, South Africa  
Tel.: +27 31 260 1390  
Fax +27 31 260 1391  
Email: Watsonh@ukzn.ac.za

Participants of this COMPETE workshop will include bioenergy experts (researchers, technologists), policymakers, investors, consumers and other interested stakeholders from Africa, Europe, Latin America and Asia.

## ***Workshop Programme***

**FRIDAY 22<sup>nd</sup> JUNE 2007**

08:00 – 08:30      Workshop Registration

### **Opening Session**

- 08:30 – 08:45      Workshop Inauguration Address  
Dr. Jairaj Ramkissoon, Director General, Food and Agriculture Research Council (FARC), Mauritius
- 08:45 – 08:55      Welcome Address by the Mauritian Host Organisation  
Dr. Jean Claude Autrey, Director, Mauritius Sugar Industry Research Institute
- 08:55 – 09:15      The EC Project COMPETE – Activities and Results  
Dr. Rainer Janssen, COMPETE Project Co-ordinator, WIP, Germany
- 09:15 – 09:35      ICSU Sustainable Energy Activities in Africa  
Dr. Janine Chantson, ICSU Regional Office for Africa

### **Session 1:**

#### **Improved Land Use – Energy Crops, Agroforestry Systems and the Provision of Energy Services for Sustainable Development in Africa**

Chairs: Dr. Romeela Mohee, University of Mauritius and Prof. Giuseppe Ristori, CNR, Italy

- 09:35 – 09:55      Sugar Cane and Sweet Sorghum Production Expansion Potential in Southern Africa  
Dr. Helen Watson, University of KwaZulu-Natal, South Africa
- 09:55 – 10:15      Experiences and Status-quo of Sweet Sorghum Cultivation in Zambia  
Prof. Francis Yamba, CEEEZ, Zambia
- 10:15 – 10:40      Coffee Break
- 10:40 – 11:00      Agroforestry as a Potential Alternative for Marginal Lands under Sugarcane in Mauritius for Environmental Sustainability and Energy  
Dr. Vinod Lalljee, University of Mauritius
- 11:00 – 11:20      Experiences and Status-quo of Jatropha Cultivation in Southern Africa  
Prof. Donald Kgathi, University of Botswana

- 11:20 – 11:40      New and Specific Oils for Biodiesel Production – Non-food Oilseed Crops for Semi-arid Regions  
Werner Koerbitz, Austrian Biofuels Institute
- 11:40 – 12:00      Sustainable Charcoal and Wood Energy Production  
Stephen Mutimba, Energy for Sustainable Development Africa, Kenya
- 12:00 – 12:45      ***Discussion Round: Biomass for Energy - Opportunities and Challenges for Africa***  
Moderators: Prof. Francis Yamba, CEEEEZ, Zambia  
Manfred Woergetter, FJ-BLT, Austria
- 12:45 – 14:00      Lunch Break

## **Session 2: Sustainability, Climate Change and Supportive Policy Frameworks**

Chairs: Prof. Gavin Fraser, University of Fort Hare, South Africa and Mr. Balraj Rajkomar, Food, Agriculture and Natural Resources Policy Analysis Network, Mauritius

- 14:00 – 14:20      The Potential of Sweet Sorghum as Source of Fermentable Substrates  
Dr. Elias Peloewetse, University of Botswana
- 14:20 – 14:40      Sustainability of Bioenergy Production in Africa: Prerequisite or Trade Barrier?  
Dr. Rocio Diaz-Chavez, Centre for Environmental Policy, Imperial College London, United Kingdom
- 14:40 – 15:00      Necessity of a Legal Framework and Government Guidelines for the Production of Energy Crops in Africa  
Michael Madjera, Federation of Evangelical Churches in Central Germany
- 15:00 – 15:20      Policies and Strategies for Sustainable Energy Crop and Agroforestry Systems in Africa  
Stanford Mwakasonda, Energy Research Centre, University of Cape Town, South Africa
- 15:20 – 15:40      ***Discussion Round: Ensuring Sustainable Bioenergy Production in Africa***  
Moderators: Dr. Njeri Wamukonya, UNEP, Kenya  
Estomih Sawe, TaTEDO, Tanzania
- 15:40 – 16:00      Coffee Break

### **Session 3: International Cooperation and Trade**

Chairs: Mamadou Dianka, UEMOA-PRBE, and Stephane Senechal, EUBIA

- 16:00 – 16:20      Biofuel and Biomass Development and Utilisation in China  
Prof. Ju Hui, Chinese Academy of Agricultural Sciences
- 16:20 – 16:40      Biodiesel Initiatives in India – Problems and Prospects  
Varghese Paul, The Energy and Resources Institute (TERI), India
- 16:40 – 17:00      Sustainable International Bioenergy Markets  
Dr. Veronika Dornburg, Copernicus Institute, Utrecht University,  
The Netherlands
- 17:00 – 17:20      ***Discussion Round: Opportunities of International Cooperation and Trade***  
Moderators: Dr. Kingiri Senelwa, MOI University, Kenya  
Dr. Francis Johnson, Stockholm Environment Institute, Sweden

### **Workshop Closing**

- 17:20 – 17:40      Summary and Conclusion  
Dr. Helen Watson, University of KwaZulu-Natal, South Africa  
Dr. Rainer Janssen, COMPETE Project Co-ordinator, WIP, Germany

## **Accommodation**

Special arrangements have been made with the Mont Choisy Hotel in Mauritius. **All COMPETE partners are invited to proceed with the booking of their hotel rooms at Mont Choisy Hotel on their own.** Rooms have been reserved through the COMPETE project, but there will be no 'central booking' through the workshop organisers. Please, mention that you are part of the COMPETE project consortium. It is highly recommended that all COMPETE partners stay at the same hotel. The hotel is located 20 min North of Port-Luis, and transport to/from the ICSU International Field Workshop will be arranged.

### ***Mont Choisy Hotel***

Royal Choisy Hotel, Royal Road, Trou Aux Biches, Mauritius

Tel.: +230 265 6336

Fax: +230 265 6749

Email: hl1469-fc@internet.mu (Contact Person: Mr. Gilbert Nash)

Internet: [www.montchoisyhotel.com](http://www.montchoisyhotel.com)

Special rates (for COMPETE partners)

Single Room (half board): 2.800 MUR (i.e. 64 EURO; 1 EURO = 43.7 MUR)

Twin Room (half board): 3.500 MUR (80 EURO)

## **Travel Assistance**

Special arrangements have been made with the travel agency ELITE Voyage.

### ***ELITE Voyage - Tour Operator & Travel Agent***

Contact person: Valentina Nehaldas, Managing Director

A7, Dr. Edwards Street, Curepipe, Mauritius

Tel.: +230 696 6000

Fax: +230 498 6000

Email: [info@elite-voyage.mu](mailto:info@elite-voyage.mu)

Internet: [www.elite-voyage.mu](http://www.elite-voyage.mu)

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Development in Africa' (18-21 June 2007)*

*organised by the International Council for Science (ICSU)*

**22 June 2007, Mauritius**

**REGISTRATION FORM**

Please complete and return (email/fax) to:

**Rainer Janssen**  
**WIP-Renewable Energies**    **Tel. +49-89-720 12 743**  
**Sylvensteinstr. 2**            **Fax +49-89-720 12 791**  
**D-81369 München**           **e-mail: rainer.janssen@wip-munich.de**  
**Germany**

(Please type or use block letters)

Family Name \_\_\_\_\_

Prof./Dr./Mr./Ms.

First Name \_\_\_\_\_

Firm/Organisation \_\_\_\_\_

Address \_\_\_\_\_

Postal Code and City \_\_\_\_\_

Country \_\_\_\_\_

Tel. \_\_\_\_\_

Fax \_\_\_\_\_

eMail \_\_\_\_\_

Registered persons will be informed about accommodation possibilities, travel recommendations and final details of the programme.

Thank you in advance!