



**Brazilian
German
Workshop** | Innovative concepts
assessing a
low-carbon economy

Innovative concepts and methods to assess a low- carbon economy towards sustainable use of soil and water resources in Brazil's Cerrado biome

Dates: 8 - 11/11/2010

Venue: Wenceslau Goedert Auditorium

Embrapa Cerrados, BR 020 Km 18, Planaltina, DF - Brasil

The aim of the workshop, held by Embrapa Cerrados and Dresden University of Technology (Germany), is to discuss and develop joint cooperation activities between German and Brazilian protagonists and stakeholders in land use, waste and water management. During the workshop, discussions will focus on the state of the art of science, practical experiences, innovative technologies and approaches. Options of technologies and solutions for problems will be elaborated on and a framework of areas for future cooperation will be structured. The workshop will be held within the context of the present Brazil-Germany Year of Science, Technology and Innovation.

November 8

- 8:30-9:00 Registration
- 9:00-10:00 Welcome address by German and Brazilian representatives
- 10:00 Coffee break
- 10:30-11:10 Thematic introduction: workshop background and aims –
Dr. Franz Makeschin, Dresden University of Technology

Low-Carbon Economy and Technologies

- 11:10-11:40 Brazilian and German innovations in environment and economy: challenges and possibilities for a low-carbon economy –
Dr. Haiko Pieplow, Ministry of Environment, Nature Protection and Nuclear Safety, Berlin
- 11:40-12:10 Material flow management: options for a low-carbon economy –
Dr. Peter Heck, Environmental Campus Trier
- 12:10-12:40 Hydrothermal Carbonisation: a new approach for use of organic wastes and residues – *Dr. Hans-Gunter Ramke, University of Applied Sciences Ostwestfalen Lippe*
- 12:40-14:00 Lunch

Management of Water Resources

- 14:00-14:30 Role of land use and material flow management for sustainable management of meso-scale river basins – *Dr. Carsten Lorz, Dresden University of Technology*
- 14:30-15:00 Impacts of land use practices on groundwater resources –
Dr. Holger Weiss, Helmholtz Center for Environmental Research Leipzig
- 15:00-15:30 Coffee break
- 15:30-16:00 Experimental areas for hydrological studies in the Cerrado –
Dr. Jorge Enoch Furquim Werneck Lima, Embrapa Cerrados

- 16:00-16:30 Technologies for water economy in agriculture: irrigation management for coffee production in the Cerrado –
Dr. Antonio Fernando Guerra, Embrapa Cerrados
- 16:30-17:00 Catchment rehabilitation as an important element for a sustainable water supply: the example of Distrito Federal –
Dr. Klaus Dieter Nader, Environmental Sanitation Company of Distrito Federal, Brazil
- 17:00-17:30 German Water Partnership: a network for supporting cooperation in water research – *Dr. Marc Wichern, Bochum University*

November 9

Land Use

- 8:30-9:00 Multi-temporal analysis of land use changes – *Dr. Antonio Felipe Couto Júnior, Universidade de Brasília*
- 9:00-9:30 Estimation of carbon stocks in soils under cultivated pastures in Brazil: Methodological approach – *Dr. Edson Eyji Sano, Embrapa Cerrados*
- 9:30-10:00 Land use and biodiversity – functional aspects of site conditions –
Dr. Helmut Eger, GTZ Brasília
- 10:00-10:30 Coffee break
- 10:30-11:00 Monitoring of greenhouse gas emissions in agricultural systems of the Cerrado– *Dr. Thomaz Adolpho Rein, Embrapa Cerrados, Dra. Arminda Moreira de Carvalho, Embrapa Cerrados*
- 11:00-11:30 Brazilian greenhouse gas mitigation policies in agriculture
Dr. Gustavo Barbosa Mozzer, Embrapa Headquarters
- 11:30-12:00 Incentive policies for the use of conservationist practices in agriculture – *Dr. Jorge Thierry Calasans, National Water Agency, Dra. Vivyanne Graça de Melo, National Water Agency.*

Communication and Transfer

- 12:00-12:30 The potential of capacity building for future environmental management – *Dr. Rolf Baur, Centre for Postgraduate Studies in Environmental Management, Dresden University of Technology*
- 12:30-14:00 Lunch

Final discussion and conclusions for future activities

- 14:00-18:00 Results of the workshop, joint topics and strategy for cooperation, overview of research programs in Brazil and Germany and discussion regarding a workshop to be held in Germany in March 2011 (funding possible within the German-Brazilian Year of Science)

November 10

- 9:00-11:30 Visit to the “Primavera Sementes-RIEDI” farm, a large private commercial farm in Distrito Federal, Brazil – *Dr. Francisco Luçardo, Primavera Sementes, Dr. Charles Martins de Oliveira, Embrapa Cerrados, Dra. Marina de Fátima Vilela, Embrapa Cerrados*
- 12:00-14:00 Lunch
- 14:00-16:00 Visit to the Águas Emendadas Environmental Station in Distrito Federal, Brazil – *Dr. Henrique Breda Arakawa, Águas Emendadas, Dra. Maria Lúcia Meirelles, Embrapa Cerrados, Dr. Jorge Enoch Furquim Werneck Lima, Embrapa Cerrados*

November 11

- 9:00-10:30 Visit to an integrated-crop-livestock-forest field experiment at Embrapa Cerrados – *Dra. Karina Pulrolnik, Embrapa Cerrados, Dr. Lourival Vilela, Embrapa Cerrados*
- 10:30-12:00 Visit to a field experiment on irrigation management for coffee production in the Cerrado at Embrapa Cerrados – *Dr. Antonio Fernando Guerra, Embrapa Cerrados*
- 12:00 **Closure of workshop**