

Planetary Garden'05
Savannas Future

INFORMATION
PROGRAMME
REGISTRATION

25 to 29 september, 2005

Maceió, Alagoas, BRAZIL
Hotels Ritz and Jatiúca

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ORGANISED BY :

- **Alagoas State** : Gouverneur – Ronaldo LESSA, Brazil
- **EMBRAPA** : Président – Sílvio CASTANA, Brazil
- **UFAL - Fédéral University of Alagoas** :
Rector – Prof. Ana Dayse REZENDE DOREA, Brazil
- **Prospective 2100** : Président – Thierry GAUDIN, France
- **Prospective 2100 Brazil** :
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- **IBAMA** : Président – Marcus Luiz BARROSO-BARROS, Brazil
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- **IEL** - Institute Eusvaldo Lobo, Brazil
- **SEBRAE** - Serviço Brasileiro de Atendimento a Micro e Pequenas Empresas, Brazil
- **City of Maceió** : Mayor – Cícero ALMEIDA, Brazil

HONORARY SPONSORS:

UNESCO, *UN - Organisation for Education, Science and Culture*
UN – FAO, *UN - Food and Agriculture Organization,*
UNEP, *United Nations Environment Programme,*
UNDP, *United Nations Development Programme,*
Foreign Affairs Ministry, *France*
Foreign Affairs Ministry, *Brazil*

WITH THE SPONSORSHIP OF :

AAF, *Agriculture Academy of France, France*
ABONG, *Brazilian Association of NGO, Brazil*
CNA, *National Confederation of Agriculture, Brazil*
CNI, *National Confederation of Industry, Brazil*
CNPq, *Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brésil*
CSFD, *French Scientific Committee on the desertification, France*
ESEE, *European Society for Ecological Economy, France*
FUNDEPES, *Universitary Foundation for Research Développement , Brazil*
IAF, *International Astronautical Federation,*
MAB, *Man and the Biosphere Programme (UNESCO)*
MS, *Swaminathan Foundation, Inde*
TORBA, *Grounds and Societies, France*

PATRONS :

BNB, *Bank of Nordeste, Brazil*
CIRAD, *Centre de Coopération Internationale en Recherche Agronomique pour le Développement, France,*
CODEVASF, *Companhia de Desenvolvimento do Vale do São Francisco, Brazil*

CHESF, *Companhia Hidrelétrica do São Francisco, Brazil*
Petrobrás, *Petróleo do Brasil, Brazil*
FBB, *Fundação Banco do Brasil, Fundação Banco do Brasil, Brazil*
FIEA/IAL, *Federação das Indústrias do Estado de Alagoas, Brazil*
FAAL, *Federação da Agricultura do Estado de Alagoas, Brazil*
BRASKEM, *Chemical products Society , Brazil*
SINDAÇUCAR, *Sindicato dos Produtores de Cana, Açúcar e Álcool do Estado de Alagoas, Brazil*
FAPEAL - *Fundação de Pesquisa de Alagoas, Brazil*
CAPES - *Coordenação de Aperfeiçoamento de Pessoal do Nível Superior, Brazil*

COMMITTEES

HONORARY COMMITTEE

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| | |
|-------------------------------|--|
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Cícero ALMEIDA, *Mayor of the city of Maceió*
Lucien DESCHAMPS, *Co-Chairman of the Organization Committee,*

Prospective 2100, France
Vera DUBEUX TORRES, UFAL/CECA, Brazil
Thierry GAUDIN, President of Prospective 2100, France
Ana Dayse REZENDE DOREA, Rector of UFAL, Brazil
René GROUSSARD, Agriculture Academy of France
John W. BUYERS, Co-Chairman of the Organization Committee, STAB, Brazil.

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Co-Chairmen:

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Lucien DESCHAMPS, Prospective 2100, France

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Elias de FREITAS Junior, EMBRAPA, DF, Brazil
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Members :

| | |
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- *NATT, Brazil*

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Alain RUELLAN, Emeritus Professor (France)

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- *Agence de Protection Environnementale, Accra, Ghana*

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- *University Abdou Moumouni, Niamey, Niger*

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- *UFAL, Dépt. of Météorology, Brazil*

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- *CETEC, UFAL, Brazil*

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- *UFAL, CECA, Brazil*

José SYDRIAD de ALENÇAR Junior - *Banco do Nordeste, Brazil*

Hervé THERY

- *Ecole Normale Supérieure, France*

Lamourdia THIOMBIANO

- *CNRST, National Centre for Scientific and Technical Research, Burkina Faso*

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- *UFSCA, Univ. of Santo-Catarina, Brazil*

Jacques WEBER

- *CIRAD, EHESS, France*

José WILBERT

- *UFAL, Brazil*

OBJECTIVES AND GENERAL TOPICS

1 - The Symposium "**Planetary Garden**" is part of the "Workshops of next century" organized on the initiative of Thierry GAUDIN, President of "Prospective 2100". These workshops are to follow a long-term forecasting endeavour ("2100: Le récit du prochain siècle" – Payot). Their purpose is to instigate deliberations between professionals from all over the world, starting from successful experiments, so that they can discuss and elucidate the economical, technical, concrete means to implement a programme.

The first Symposium "**Planetary Garden '99**", which was held in Chambéry in March 1999, considered the long-term perspectives of our planet, taking a very broad approach. The second symposium "**Planetary Garden '05**" will address the issue of savannas and surrounding areas future, taking in particular for basis the example of the woody Brazilian savannas (cerrados and caatingas).

2 – Savanna landscapes are characterized by an herbaceous vegetation where grasslands are prevailing, with as the case may be, a discontinuous canopy of trees and shrubs. Savannas are covering vast surface areas in tropical countries such as Central and austral Africa, South Asia, Australia, Central and South America.

3 – Brazilian savanna is located both in the Centre-West region (called Cerrado) and in the Nordeste region (called Caatinga). From the outside, these different types of savannas look the same. However, each of these savannas has its own special features: as an example, leaves falling for the Caatinga during the dry season, and the presence of twisted tree-trunks for the Cerrado. Owing to the interactions with the adjoining biotopes and the relation with the geological and paleoclimatic history of the continent, the biogeographical models in these different regions are complex.

The Cerrado is the second most important type of vegetation of Brazil in terms of land use. It concerns regions with a tropical climate and two contrasted seasons: a dry season in winter and a rainy season in summer. The Cerrado is developing on crystalline and sedimentary rocks on large plateaux called "chapadoes", the majority of them being deep and acid.

During the last decades, the Cerrado has been considered as an alternative to the Amazonian deforestation, with Cerrado intensive exploitation for agriculture, livestock farming, forestry. The biotope land use process is already so significant that it is today no more adequate to consider the Cerrado like an agricultural frontier.

The Caatinga is located in the semi-arid region of the Nordeste in Brazil. The climate is made of two seasons that are different because of rainfalls: in winter, a rainy season and in summer a dry season. The Caatinga is developing on even soils of crystalline rocks. Most of the soils are not deep and nutrients-rich. The developing of agricultural and livestock farming is largely dependant on water availability by irrigation due to small and irregular rainfall.

In addition, Brazil, with its vast interior, represents a very interesting natural laboratory, where it is possible to follow up the ecological evolution, even the movements of the arid and humid tropics due to land settlements and expanding human population, and to measure the resulting impact on savannas areas.

4 – The large areas of savannas and their potentialities emphasize what is at stake in these regions, whose development is often recent and which the worldwide market could still favour. The issue is the ecology and the economy of Brazil and it has a worldwide dimension as well.

The goal of the “Planetary Garden – Savannas future” symposium will be to assess the optimal conditions for the management of tropical savannas areas in the future. In particular, it will assess the economic, social, and ecological constraints linked to the development of these regions, with a triple objective:

- Sustainable development
- Economic profitability
- Social equity.

It is on these very bases: sustainable development, economic profitability, social equity, that we will be led to work and propose a set of long-term recommendations for agricultural policies and savannas development.

The Symposium will be built around the main following themes, with the objective of comparing what is happening in the various savannas of the world:

- The natural characteristics of the various savannas of the world
- the history of human settlements in the various savannas of the world
- the present situation of human settlement and its consequences : economic, social, ecological aspects ; local and regional ones ;
- the desirable future : what kind of sustainable development (social, economic, ecological) for the various savannas ? How to achieve it (the technological and political ways) ?

5 – Organised in Maceio, this symposium will permit a particular approach, based upon concrete case studies carried out in all savannas regions of Brazil and more particularly in the Brazilian Nordeste, deeply affected by drought and in some places, already changed by the green revolution. We will study in particular the impact of the land use development of caatingas in the surrounding Atlantic Mata or the resources and the water ecosystems of the Sao Francisco River.

Bearing this perspective in mind, the themes covered by the symposium, which will contribute to structure the programme, will be as follows:

1 – Characteristics and problematics of savannas in the world: climate, soils, hydrology, fauna, flora, ...

2 – History of the development of savannas land use,

- 3 – Ecological issues in savanna areas and their adjoining areas,
- 4 – Economic and societal issues,
- 5 – Particular issues in the Brazilian Nordeste and in particular in the Alagoas State
- 6 – Impact of climate evolution (move of tropics?) and natural hazards for savannas
- 7 – Future needs and resources: food, energy, water, soils, health, genetic resources, ...
- 8 – New technologies and techniques, notably space techniques, and sustainable development,
- 9 – New agricultural policies and sustainable development,
- 10 – Education and eco-tourism,
- 11 – Theories of sustainable development in savannas
- 12 – Successful experiments prefiguring the Planetary Garden.

TECHNICAL SESSIONS,

The technical programme of the symposium is presented below

AUDIOVISUAL PRESENTATIONS,

The Planetary Garden'05 Organisation Committee has made it possible for research laboratories and companies to hold audiovisual presentations in a room especially equipped for this purpose

Audiovisual projections will take place during the symposium from 26 to 28 September, 2005. They will be scheduled in a programme which will be available during the Symposium.

TECHNICAL VISITS,

3 technical visits are proposed : V1, V2 and V3.

For each visit, registrations will be considered in order of arrival (please state a second preference on your registration form)

V1 – Xingó hydroelectric power plant and caatingas area of the Sertão,

Duration : 2 days

Capacity : 30 people

Cost : 95 US\$ including transport and hotel.

V2 – Sugar refinery and rehabilitation area of the Atlantic Mata,

Duration : 1 day
Capacity : 30 people
Cost : 20 US\$

V3 – Bamboo Institute, IBAMA Park and project of Braskem green belt

Duration : 1 day
Capacity : 30 people
Cost : 20 US\$

TUTORIALS,

Three high-level tutorials will be given by professors during the Sunday afternoon of september 25th, 2005 for a limited number of people. These tutorials will be presented in brazilian without translation.

T1 – Environmental certification of the enterprise : Norms, applications, concrete results.

T2 – Space techniques for tomorrow's agriculture: Earth observation satellites, meteorological satellites, remote sensing satellites,...prospects for precision agriculture.

T3 – Cultures on dead or live plant covers : concept, different techniques, advantages, issues, applications to savannas, results obtained, future prospects,...

WORKSHOPS,

Taking the opportunity of the presence of high-level experts from all over the world at the « Planetary Garden - Savannas future » symposium, specialised workshops will be organised after it. These workshops will consist in in-depth discussions on burning issues between invited experts, based upon a list of questions previously finalised by them. The number of participants to these workshops will be limited in order to permit sufficient exchanges. Summaries as well as recommendations will conclude these meetings.

Information : General Secretariat of the symposium.

4 workshops will be organised :

- **Sugar cane production lines and socio-environmental certification of the sugar refineries.**
Maceió, Thursday, september 29th, 2005.
- **Analysis of the spatiotemporal variability of the productivity of savannas ecosystems and of their response to climate change.**
Maceió, Thursday, September 29th, 2005.

- **Innovative production lines : The agro-forestry systems and livestock farming in cerrados and caatingas.**
Xingó, september 30th and October 1st, 2005.
- **Energy, water and environment : Country planning and rational uses.**
Xingó, september 30th and October 1st, 2005.

YOUNG RESEARCHERS CONTEST

The organizers of Planetary Garden'05 are conducting a young researcher' contest to foster student and young researchers' participation in the conference. The authors of the best papers will receive a first prize of 2000 R\$ and a second prize of 1000R\$ at the end of the symposium during the closing ceremony.

RECEPTIONS,

- Sunday, september 25th, 2005 from 18 : 15 to 19 : 30 : Welcome cocktail in a lounge of the Hotel Jatiúca.
- Tuesday, September 27th, 2005 at 20 : 00 : «Planetary Garden» evening.

INTERNATIONAL TRADE EXHIBITION,

In parallel and in order to contribute to the objectives of the symposium, a trade exhibition will be organized from Monday 26 to Wednesday 28 september on the same site as the conference.

This exhibition will provide a showcase for the last developments in the field of sustainable development of savannas zones.

Exhibition opening hours:

Monday 26 september 2005 : from 10:30 to 18:00,

Tuesday 27 september 2005 : from 10:00 to 18:00,

Wednesday 28 september 2005 : from 10:00 to 16:00.

The following organisations, particularly concerned, have been invited to participate to this exhibition :

- The industrials developing materials, software packages, components, products and techniques for sustainable development of savannas, cerrados and caatingas,
- The companies producing and distributing electric power and water,
- The farmers from sustainable development and the associated distribution,

- The public and private organisations developing studies on knowledge, planning and management of savannas, cerrados and caatingas areas.

Contact : Cristine LINS RAMIRES – Tel : +55 (82) 21 21 30 00

FIEA – Federação das Industrias do Estado de Alagoas

E-mail : cristine@fiea.org.br

Lúcia CALHEIROS - Tel : +55 (82) 33 15 16 48

OPEN DAY « Worldwide Youth and Planetary Garden»,

The transition from exploitative to sustainable management of nature : « Planetary Garden » forms a vital stake for the next century with as much scientific as societal implications.

The youth are the first people most concerned by the implementation of sustainable development technologies. It is therefore important to include them immediately in the programme. During this open day the youth will present ideas and successful experiences in the domain of sustainable management technologies and, more precisely, in the « planetary garden » domain. Round table discussions and demonstrations will be organized.

GENERAL INFORMATION

DATES AND VENUE

Planetary Garden'05 will be held in the Hotel Ritz Lagoa da Anta Conference Center, Maceió, Alagoas, Brazil from 25 to 29 September 2005.

OFFICIAL LANGUAGES

The official languages at « Planetary »Garden'05 » are Brazilian, English and French. Simultaneous translation will be provided for all sessions A and B.

DOSSIER

On arrival, each participant will receive at the welcome desk a personal conference pack.

BADGES

A personal admission badge will be distributed to each participant. This will provide access to the sessions, the audiovisual presentation room and the exhibition. It should be worn at all times during the « Planetary Garden'05 » symposium.

PRACTICAL INFORMATION

MEALS

Meals are not included in the registration fees. All symposium participants will be provided with a list of restaurants inside or around the hotel on their arrival.

CAR PARKING

Parking in the park of the hotel « Ritz » near the conference centre.

INSURANCES

The organisers cannot be held liable for any personal accident or for damage to or the loss of any personal property, howsoever caused. Participants should therefore make their own insurance arrangements.

CLIMATIC CONDITIONS

In the month of April, the temperature in Maceió is usually between 25°C (75°F) and 30° (85°F) with a probability of showers.

USEFUL TIPS

In Maceió, the electric current is 220 V / 50 Hz. It is advised to consider the use of an electric adaptor.

HOTEL RESERVATIONS

The Secretariat of Tourism of Alagoas State has made block bookings of rooms for participants in a variety of different hotels in the town at a special congress discount.

Four categories :

- Between R\$ 40,00 and R\$ 80,00
- Between R\$ 80,00 and R\$ 120,00
- Between R\$ 120,00 and R\$ 160,00
- Between R\$ 160,00 and R\$ 200,00

Hotel Jatiúca, site of the symposium, offers exceptional prices for our event.

Travel Agency appointed by the organisers :

Aeroturismo Agência de Viagens LTDA

Tel : +55 (82) 32 18 20 16 Fax : +55 (82) 32 21 45 46

Contact : Eduardo Brunno ou Pollyanne Medeiros

e-mail : eventos@aeroturismo.com.br

GETTING TO MACEIO

AIR :

International airports of Maceió (30 km) and Recife (300 km).

BUS :

Maceió is linked by bus at most of the Brazilian cities.
Coach station at Maceió

REGISTRATION FEES

Registration fees for the entire symposium are :

- 300 US\$: Normal fee.
- 200 US\$: Members of Prospective 2100
- 150 US\$: University staff : who are not members of Prospective 2100
- 100 US\$: University staff : members of Prospective 2100

Special fees for students, professors and researchers from partner or patronage organisations : Information at the symposium General Secretariat.

These fees include :

- Access to the plenary and poster sessions and the audiovisual presentations,
- Morning and afternoon refreshments,
- Access to the exhibition,
- Provision to the personal file.

An extra fee of 10 US\$ is required in order to take part in the reception organised on the evening of Tuesday, 27 September 2005

The technical visits and the tutorials are not included in the registration fees and will be invoiced separately (see order form).

Authors, lecturers and committee members are not exempt from paying registration fees

Only registration accompanied by the order form from a company or a receipt proving individual payment will be accepted.

The reimbursement of registration fees can be made for any cancellation request received in writing by the General Secretariat before 15 September 2005. No reimbursement will be granted for any cancellation made after this date.

The Organisation Committee reserves the right to close registration without any prior warning.

SIGHTSEEING SUGGESTIONS / TOURISTIC PROPOSALS

The area of Maceió presents a lot of touristic possibilities on the coast with beautiful beaches or inside the country : Old historical cities, Atlantic forest, Caatingas, San Francisco River, ...

Information before the symposium at AéroTurismo Agency :

Email : eventos@aeroturismo.com.br Fone : +55 (82) 32 18 20 16

ADDRESSES TO NOTE

- **BEFORE THE CONFERENCE**

Registration – General Secretariat

In Brazil – Registration from « Brazil » :

Planetary Garden'05 – Savannas Future

PROSPECTIVE 2100 – Brésil

UFAL - PROPEP

Av. Lourival Melo Mota, s/n

Campus Universitário

BR 101, km 97,6

Tabuleiro do Martins

CEP : 57 072 - 900

Maceió, Alagoas, Brésil

Tel : 55 82 32 14 10 69

Fax : 55 82 32 14 16 10

e-mail : noel.vieira@gmail.com, rosival@propep.ufal.br e dubeuxtorres@gmail.com

In France – Registration from « Other countries » :

Planetary Garden'05 – Savannas Future

PROSPECTIVE 2100

1, Place Aristide Briand

92 190 Meudon, France

Tel. : 33 (1) 45 07 51 05

Fax : 33 (1) 45 07 53 58

e-mail : deschamps@2100.org

- **DURING THE CONFERENCE**

All services will be transferred to the Conference Center of the Hotel

“Ritz Lagoa da Anta” :

Ritz Lagoa da Anta

Av. Brigadeiro Eduardo Gomes, 546

CEP: 57 035 – 180

Brasil

Tél: (82) 21 21 40 00

Fax:(82) 21 21 41 23

E-Mail: eventos1@ritzmaceio.com.br

CONFERENCE WELCOME DESK OPENING HOURS

Saturday 24 september: 16:00-18:00

Sunday 25 september: 10:00-18:00

Monday 26 september : 8:00-18:30

Tuesday 27 september : 8:00-18:00

Wednesday september: 8:00-18:00

« PROSPECTIVE 2100 BRAZIL » ASSOCIATION

The Association « Prospective 2100 Brazil », sister association of the french association « Prospective 2100 », is a non profit organisation which promotes the prospective to decision-makers. It organizes activities which lay-out majors programs for the upcoming century most notably in the areas of :

- Ocean cities,
- Structuring towns,
- World space programme,
- Planetary garden,
- World-wide communication,
- Energy,
- Education and culture,
- Consumer information,
- New working methods,
- Prospective of N.G.O.s and health,
- Bioéthics,
- Incentive tax system,
- Global judicial system,
- Economic and monetary world structures.

Président : Professor Vera BUBEUX TORRES.CECA/UFAL, BRAZIL

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