

# GreenLab Workshop

June 7 – 8, 2005, LIAMA, Beijing



## Context and Aim of the Workshop

### Scientific Sessions

### Institutional/Project presentations and Workshop Sessions

### Side Event

### Local Information

### List of participants

With the support and collaboration of: CASIA, CAU, CAF, CIRAD, French Embassy in China, ECP, INRA, INRIA, University of Wageningen, CAAS, MOST and LIAMA

### ***Context and aim of the event.***

This is the second edition of GreenLab strategic workshop. First one took place in Beijing, October 13<sup>th</sup>-14<sup>th</sup> 2004, a couple of weeks before LIAMA phase III launch.

According to participants' wishes, we do reiterate this event this year, but with a different schedule. Pushing event time to a former date came out for several reasons:

- October is a very busy month. It is usually a high intensive activity period within GreenLab project involving many researchers and students on concrete research tasks. It is also a dense period for LIAMA with its Scientific Council (October 26<sup>th</sup>). And this year, LIAMA will host the ASIA-ITC workshop (organized by the French Ministry of Foreign Affairs, planned last week of October)
- LIAMA is involved in the organization of ISAE, June 2<sup>nd</sup>-5<sup>th</sup>, in Quizhou. This event is dedicated to ITC in Agriculture and Environment and has potential interactions with GreenLab; opportunities to meet colleagues are therefore multiplied.
- GreenLab LIAMA Onsite Project activity and renewal must be evaluate this year. The report request will be announced beginning May and should be submitted for July. The event date is so fully appropriate to gather results and define the outline of the renewal proposal.
- Finally date matches also with LIAMA Seed Proposal Call result announcement, in which GreenLab may be concerned (two proposals do involve GreenLab).

We learnt from past last year workshop, that advances, progress and results presentations were shown as being very useful to all participants but time schedule was really very tight. So, this year, a full day will be allocated to.

The aim of Greenlab 2004 workshop was to contribute to the definition of GreenLab project in LIAMA phase III. Outcomes pointed out main streams in terms of scientific challenges, research axis, partnerships, founding strategy, dissemination activities and a set of actions. Other points were still open to discussions, such as software engineering.

Note that the frame of the GreenLab project in LIAMA as changed while entering LIAMA phase III. Such is also the case in INRIA, while launching Digiplant Program. Significant changes did also occur in terms of mobility.

The aim of this workshop is therefore slightly different from previous year and plans to:

- express recent advances in the project
- update main streams of the project, especially those concerning activities in LIAMA
- contribute to evaluation and renewal report contents
- Complete if possible unclear points raised from past workshop.

Of course, it still makes sense to catch new partnerships, research streams or mobility opportunities and adjust project strategy according to.

As it was the case for 2004, the workshop will be organized in three sessions:

- Tuesday 7<sup>th</sup> : Scientific session (scientific report presentations)
- Wednesday 8<sup>th</sup> (am): Institutions and project presentations
- Wednesday 8<sup>th</sup> (pm): Group working sessions.

### ***Scientific sessions. Tuesday, June 7<sup>th</sup>, 2005 9:00***

Scientific sessions are dedicated to short scientific presentations on GreenLab recent research outcomes. Last year sessions shown that half a day was too short and too dense for all contributions. A full day is therefore dedicated to these presentations. The session is not formal. However, we would like contributors to deliver a digital file of their talk. These talks will be burned on a CD and disseminate to participants

	<b>Topic</b>	<b>Possible Main Speaker</b>
09:00	Welcome and practical information	Baogang HU
09:15	Workshop context and aims	Marc JAEGER
09:30	GreenLab main streams	Philippe de REFFYE Baogang HU
10:00	<i>Break</i>	
10:20	Single plant models & applications (1)	
10:30	GreenLab model use in Wag. Univ.	Cap. Nor. Uni. – Mengzhen KANG
10:45	Optimal Control	CASIA/UJF Grenoble – Lin WU
11:00	Root architecture plasticity	CAU - Baogui ZHANG
11:15	Tree pruning simulation	CASIA/LIAMA – Ning XIA
11:30	Root structural functional modeling	CASIA/LIAMA – Qibing CHEN
11:45	Simulation on Tomato	CAU – Xiaoxue DONG
12:15	<i>Lunch</i>	
	Single plant models & applications (2)	
14:00	Functioning simplification on trees	ECP – Veronique LETORT
14:15	Calibration on ramified plants Crop / plantation models	CAU – Zhigang ZHANG
14:30	Advances on Digiplant project in ECP	ECP - Paul Henry COURNEDE
14:45	Evaluation of GreenLab-Maize model	CAU - Yuntao MA
15:00	Root system model of maize	CAU – Wuping ZHANG
15:15	Bio-Mechanics. Tree stability	CIRAD/LIAMA – Thierry Fourcaud
15:30	Machine learning for modeling	LIAMA – Han Bin QU
15:45	<i>Break</i>	
	Digital imaging / Visualization	
16:15	Aerial Image processing for Forestry	CASIA/LIAMA – Veronique Prinnet
16:30	Root system analysis from serial images	CAU - WU HaiWen, ZHANG Baogui
16:45	Plant Volume skeleton extraction	CASIA/LIAMA – Jianfei LIU
17:00	LOD/LOV for landscape visualization	CASIA/LIAMA – Xiaopeng ZHANG
17:15	GPU Tree visualization	CASIA/LIAMA – Jun TENG
17:30	Sampled Implicit surface tree visualization	CASIA/LIAMA - Wei Wei YING
17:45	Volume functional Landscape simulation	CIRAD/LIAMA - Xing MEI / MJ
19:00	<i>19:00 Dinner</i>	

## ***Institutions/project presentations and Group working sessions***

This second day is divided in two parts:

- one hold in the morning, focused on institutions and project presentations
- the other, in the afternoon, is dedicated to group exchanges, discussions and decisions

### ***Institutional and project presentations***

Institutional presentation may describe the hosting institution, research topics, man power involved (senior, post doctorates, students), relation with LIAMA including exchanges planned evolution, and possible financial aspects.

For projects, it concerns specifically new projects planned to be hold in LIAMA in 2006 or projects that may be newly involved in GreenLab frame. Research topics, synthetic scientific basis, planned partners, financial aspects are welcome.

### ***Group Working Sessions***

GreenLab projects cover many aspects beside scientific research aspects that may be discussed with partners. Scientific strategies, streams, priorities as well as these aspects are critical to GreenLab, due to the specificity of the project lying on cooperation frames and covering multidisciplinary fields. Discussions could lead to define goals, financing mechanism, partner policy, dissemination and actions on all these topics. We do also expect to define the frame of the project activity and renewal report for its evaluation.

	<b>Topic</b>	<b>Possible Main Speaker</b>
09:00	Welcome and practical information	Baogang HU
09:15	LIAMA On Site Projects.	Marc Jaeger
09:30	GreenLab Partners and their contributions	Philippe de REFFYE
10:00	<b>Break</b>	
10:20	Institutional presentation & projects CAU New experiments hold in CAU The Arpege project	Prof. Li Bao Guo Guo Yan Baogui ZHANG
10:45	Institutional presentation & projects CAF A PRA project	Prof. Yuanchuang LU / XiangDong LEI
11:10	The Capsis project	F. de Coligny
11:40	Institutional presentation and INRA project In Eco Engineering: <a href="mailto:SDSS@China.net">SDSS@China.net</a>	A Stokes
12:15	<b>Lunch</b>	
14:00	GreenLab Key figures	Marc Jaeger
14:20	Planned new resources in LIAMA	Baogang HU
14:40	Group Working Session 1	
16:00	<b>Break</b>	
16:30	Group working Session 2	
17:30	Outcomes LIAMA main streams updates Evaluation and renewal report frame Short term actions Others	
18:00	Calendar and Milestones	
19:00	19:00 Dinner	

## Side Event

June 3-4, 2005. ISAE: Sino-French Workshop.

*“L’informatique en Campagne”*

Information Science for Agriculture and Environment ( <http://www.isae.org.cn> )

GuiYang, GuiZhou Province, P.R. China

## Local Information

Secretary (with special thanks to)

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Administration

LI Shi (LIAMA vice director in charge of administration) [leeshi@liama.ia.ac.cn](mailto:leeshi@liama.ia.ac.cn)

Presentations are located in CASIA either in room 1123 on 11<sup>th</sup> floor (same as LIAMA offices), either on 13<sup>th</sup> floor

Map and contact coordinates are available at <http://liama.ia.ac.cn/contact.htm>

Lunch are served in the new CASIA restaurant, at second floor

## List of participants

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*Updated list will be updated weekly*