

DigiPlante Workshop 2013 *(5th Edition)*

Barbizon, 4-5 June 2013

Program.

----- 4 June -----

Session 1: The Art of Modelling

Chair: P.-H. Cournède

10:00 Pauline Hezard

Water balance simulation for Aquateam project

10:30 Marion Carrier

From a STICS annual and homogenous crop model to grapevine modelling

11:00 Robert Beyer

Modelling Light Sensitive Tree Crown Dynamics via 3D Diffusion Equations

11:30 Benoit Bayol

A formal system to enhance good modelling practice for non-linear stochastic discrete dynamical models of plant growth

12:00 Benoit Bayol

A few technical reminders

12:15 Lunch

Session 2: The Magic of Statistics

Chair: V. Letort

14:00 Samis Trevezas

Some basics of the EM algorithm and more...

14:45 Charlotte Baey

A population-based version of Greenlab

15:15 Yuting Chen

Iterative Convolution Particle Filtering for Nonlinear Parameter Estimation and Data Assimilation with Application to Crop Yield Prediction

15:45 Coffee Break

16:00 Aman Gupta

An introduction to Ensemble Kalman Filtering

16:15 Blandine Romain

Parameter estimation of perfusion models in dynamic contrast-enhanced imaging: a unified framework for model comparison

16:45 Qiongli Wu

Sensitivity Analysis for Plant Models with Correlated Parameters - Application to the Characterization of Sunflower Genotypes

17:15 Paul-Henry Cournède

*A few research perspectives for *Digi*plante*

17:45 *Conclusion*