

*Workshop DigiPlante 2011
(3rd Edition)*

Champagne, 16-17 June 2011

Program.

----- 16 June -----

10:15 Introduction and Welcome Coffee

Session 1: New Frontiers in Modeling

Chair: P.-H. Cournède

10:30: Li Song

The STICS model : an alternative to GreenLab ?

11:00: Véronique Letort

A Mechanistic approach to the sink functions in GreenLab

11:30: Amélie Mathieu

Heterogeneity at field scale in Winter Oil Seed Rape: illustrations and keys to a population model

12: 00 Octave Etard

A Porous Medium Equation to model plant growth at field level

12: 30 Blandine Romain

Image processing and pharmacokinetic modeling for the follow-up of solid tumors undergoing antiangiogenic therapy.

13:00 Lunch

----- 17 June -----

Session 2: Model Analysis and Evaluation – Part 1

Chair: A. Mathieu

8:30 Katarina Smolenova

Graph grammar based implementation of GreenLab

9:00 Qiongli Wu

Biophysical diagnosis of Functional Structural Plant Models with different levels of complexity using global sensitivity analysis

9:30 Charlotte Baey

A hierarchical segmented model to assess the dynamics of leaf appearance in sugar beet populations

10:00 Chen Yuting

Particle filtering methods for the Bayesian estimation of plant growth models

10:30 Paul-Henry Cournède

Data assimilation with non-linear filtering and application to yield prediction

10:45 Coffee Break

Session 3: Model Analysis and Evaluation – Part 2

Chair: V. Letort

11:00 Samis Trevezas

Maximum likelihood estimation for discrete non-parametric Semi-Markov models

11:30 Qi Rui

Analysis of phenotypic parameters between two genotypes of oilseed rape.

12:00 Kang Fenni

Parameterization of plant growth models to characterize genotype by environment interactions: a methodology adapted to breeding programs

12:30 Benoit Bayol

(the last but not least presentation)

PyGMAIion: Present, Future, and more...

13:00 Lunch