

5th International Symposium for Farming Systems Design

SEPTEMBER
7-10, 2015

MONTPELLIER
France



Plenary symposium – Monday September 7, 2015
Le Corum, Montpellier, France



"Farming Systems Design in Action: Methods, Achievements and Challenges"

This one-day symposium is part of the [5th International Symposium for Farming Systems Design](http://fsd5.european-agronomy.org), organized by the [European Society for Agronomy](http://european-agronomy.org) and [Agropolis International](http://agropolis-international.org) from September 7 to 10, 2015 at Montpellier, France. During this day, keynote speakers will address the recent breakthrough in Farming System Design research and open up the debate with participants on burning issues and challenges on Farming Systems. This symposium is open to researchers, science managers, companies and PhD students in addition to the participants attending the whole congress.

Specific fares (including congress, kit, lunch and breaks) are set for participants willing to attend only this day:

ESA Member or student: € 100 before May 31 (€ 130 after May 31)
Standard participant: € 130 before May 31 (€ 150 after May 31)

For further details on registration and costs, see: <http://fsd5.european-agronomy.org/registration.html>

What is FSD? FSD is an informal interdisciplinary **scientific community of practice** to promote research and capacity building on farming systems design.

The core is science: "The research focus of the FSD community is the farm system level, the interactions and feedbacks at lower and higher levels of integration and the tools and methods required for understanding and implementing multi-functional farming systems expressing good trade-offs between agricultural production and ecosystems services".

The 5th International Symposium for Farming Systems Design will focus on "Multi-functional farming systems in a changing world" and aims to strengthen the interdisciplinary and methodological focus of the FSD initiative on methodologies for the design of productive and sustainable farming systems in a multi-scale and multi-domains approach. This means that FSD, although focused on the design of farming systems, deals with local as well as global issues as targets and constraints (food security, climate change, biodiversity, socio-economic development). It will be an opportunity to enlarge the collaboration with major agronomy societies in the world as well as with scientific societies in other disciplines, international institutions or initiatives with an interest in farming systems. It aims also at involving research related to policy design, incentives and investment, as well as players in the value/supply chains, to help secure positive change within farming systems.



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Provisional program (9 am – 6.30 pm)

Session 1: Introduction

"Welcome and introduction of the symposium"

Bernard Hubert, Agropolis International, France

"Systems analysis and design in agriculture"

Jacques Wery, European Society for Agronomy, France

Session 2: A need to redesign: examples of typical challenges

"Revising the strategy of agriculture intensification: Designing ecological intensive farming systems in China: Challenges and strategies"

Fu Chen, College of Agronomy and Biotechnology, China Agricultural University, China

"A multiscale approach of innovation: Legumes as a driver of agroecological transition in France"

Marie-Hélène Jeuffroy, INRA, France

"From cropping systems design towards sustainable agrifood systems design: new challenges for agronomists"

Jean Marc Meynard, INRA, France

"Applying yield gap analysis to identify options for sustainable intensification in livestock production systems"

Aart van Linden, Wageningen university and Research, the Netherlands

Session 3: Drivers of change of agricultural systems

"Farming comes of age? Farm diversity, farm size, farm activities and structural changes in different regions of the world"

Ken Giller, Wageningen University and Research, the Netherlands

"Path dependence and transition: a theoretical perspective on farm structures"

Alfons Balman, Leibniz Institute of Agricultural Development in Transition Economies, Deutschland

Session 4: The Farm System as the core of the design process

"Beyond technology development and transfer: co-designing sustainable farm systems with farmers"

Santiago Dogliotti, Universidad de la República, Uruguay

"Innovation by smallholder farmers leading to more diverse and intensive farming systems"

Bill Bellotti, University of Western Sydney, Australia.

"Analysing farming system design activities in the sight of Design Studies concepts"

Laurène Prost, INRA, France

Session 5: The Landscape level as the core of the design process

"Bridging the gaps between ecological principles and actions for designing biodiversity-based agriculture"

Michel Duru, INRA, France

"Exploration of windows of opportunity for improved nutrition, productivity and resource management at the landscape level"

Geroen Groot, Wageningen University and Research, the Netherlands

"Impact of farming systems on agricultural landscapes and biodiversity: from plot to farm and landscape"

Gilles Martel, INRA, France

Session 6: What public policies are needed for the design and implementation of sustainable agricultural systems?

"Policies and institutions fostering sustainable agricultural systems"

Erik Mathijs, KU Leuven, Belgium

Session 7: Conclusion: Challenges and prospects for research on agricultural systems analysis and design

Round table consisting of a panel of funding / donor agencies to provide feedback about the symposium and discuss where do they see future investments in research.

Poster session (5.00-6.30 pm)

For further details on the program, see: <http://fsd5.european-agronomy.org/programme.html>

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