



# Agro2010

the XI<sup>th</sup> ESA Congress

**August 29<sup>th</sup> - September 3<sup>rd</sup>, 2010**  
**Montpellier, France**





# XII Congress of ESA 20 – 24 August 2012 Helsinki, Finland

[www.esa12.fi](http://www.esa12.fi)

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**What's on the MENU ?**



# Agro2010 numbers

- 572 participants
- 56 countries
- 24 from Europe (82% participants)
- 13 from Africa (5.5% part.)
- 11% part. from tropical countries
- 46% part. from France
- Top 10 (Fr, It, Deutschland, **USA**, Spain, Pol, NL, Czech Rep., UK, **Australia**)



# Thanks to the Agro2010 Sponsors



**Thanks to Session Chairs and  
papers reviewers**

**PROGRAMME**

**AGRO2010**

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# Special thanks to the LOC

## Organizing Committee

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- N. Villemejeanne, Agropolis International

# Agronomy is an applied Science

1. Will agriculture be able to adapt to climate change and at which scale can we act ?
2. Ecological intensification of Cropping Systems: theoretical concept or operational solution?
3. Conservation agriculture: Did we fail in Africa and which research priorities for the future ?
4. Will we have enough to feed the world?
5. Farming system design: which role for research extension and agro-industry?
6. Is Agronomy back in professionals and academic curricula? "

Today and Beyond the congress



# The three Pillars of modern Agronomy

1. **Crop System Biology:** *The functioning of the plant in a field.*
2. **Field Scale Agroecology:** *The cultivated field as an ecosystem.*
3. **The Cropping System in its embedding systems** (Farm, Regional and Global Scales)  
Using Experiments, Survey, Modelling,  
Data Mining...

Wednesday and in ESA  
structure



# The new frontiers of Science between Agronomy and other disciplines

- **Genetics and Biology** → *the co-designing of plants and crops.*
- **Ecology, Soil Science and Plant protection** → *produce goods and services with less input.*
- **Economy and Social Sciences** → *the co-designing of Farms and Policies.*

Tuesday and in special  
issues (European  
Journal of Agronomy)



# Burning questions for which Agronomists have a special responsibility

- **Yield gap analysis: Implications for research and policy on food security and land use change**

Tuesday and in  
International Projects



# Bridging the gaps between Congress and Farmers Fields.

- **Innovation and Decision Support in Agriculture Which Roles and Partnership for Research?**

- ✓ **In France and Europe**

- ✓ **In Africa**



Thursday in Montpellier  
SupAgro



# Specific actions to prepare the future

- **TRAIN** young scientists
  - ✓ **Crop Modelling** (SupAgro-INRA)
  - ✓ **IAAS** (IAM-SEAMLESS)
- **BRAIN** storm for international projects
  - ✓ **ECSAS Workshop**
  - ✓ **CIRAD Workshop**
- **CLAIM** a new future for ESA
  - ✓ Division Meetings (Tuesday)
  - ✓ General Assembly (Wednesday)

Open to non members

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**S.1.1: Will agriculture be able to  
adapt to climate change  
and at which scale can we act?**

Chaired by Bernard Hubert (Agropolis International)



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## **S.1.2: Ecological intensification of Cropping Systems: theoretical concept or operational solution?**

Chaired by Michel Griffon  
(ANR, National Research Agency, France)



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**S1.3: Conservation agriculture: Did we fail in Africa and which research priorities for the future ?**

Chaired by Ken Giller (WUR)



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## **S1.4: Will we have enough to feed the world?**

Chaired by Jacques Wery  
(Montpellier SupAgro)



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## **S1.5: Farming system design: which role for research extension and agro-industry ?**

Chaired by Jacques Wery  
(Montpellier SupAgro)



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## **S1.6: Is Agronomy back in professionals and academic curricula?**

Chaired by Bernard Hubert (Agropolis International)

