



**Scientific Committee being formed:**

- Sandro Liberatori - ENAMA (Italy)*
- Ulrich Rubenschuh - DLG (Germany)*
- Krister Persson - DIAS (Denmark)*
- Daniel Froelich - ENS Arts et Métiers (France)*
- Frantz Barnabé - CETIM (France)*
- Grigore Gogu - IFMA - Clermont Université (France)*
- Gilles Vaillimgom - CIRAD (France)*
- Pascal Higelin - Université d'Orléans (France)*
- Michel Cariolle - ITBetterave (France)*
- Jean François Goupillon - AXEMA (France)*
- Daniel Clochard - Entr. Sulky (France)*
- Pierre Havard - Ch. Rég. Agri. de Bretagne (France)*
- Pierre Guiscafré - FNCUMA (France)*
- René Delouée - SAF (France)*
- Philippe Roux - Cemagref (France)*
- Marc Rousselet - Cemagref (France)*

**Coordination:**

*Dominique Didelot - Cemagref (France) - dominique.didelot@cemagref.fr*

**Organisation office:**

*Eliane Simon, Irène Mingot, Emilie Duchatelle, Marc Rousselet, Vincent Abt, Technical Support Team - Cemagref*

**Language:**

The official language will be English or French.

Sponsored by



This Symposium is being pooled with 2 other events:

**AgEng 2010**



<http://www.ageng2010.com>

and the Symposium:  
**ROBOTICS 2010**

Mobile Robotics for Environment/Agriculture  
September 3-4, Clermont-Ferrand

<http://www.robotics2010.org>

**ECOTECHS 2010 On-line registration:**  
<http://www.ecotechs2010.org>

With the support of the TIMS Research Group and VIAMECA competitiveness cluster



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**Locations:**

**3/09/10:** ENGREF or Physics Faculty lecture hall on Campus des Cézeaux (Clermont-Ferrand)

**4/09/10:** By coach from Clermont-Ferrand to Montoldre (Allier)




**ECOTECHS 2010**  
**International workshop**  
**Eco-design Methods and Tools**  
**for Agricultural Technologies**

**3 – 4 September 2010**

*Clermont-Ferrand – Campus des Cézeaux University site*  
*Montoldre – Cemagref Experimental Site*

**As part of the final presentation of the ANR-ECODEFI project**



ECO-design and Development of innovative production methodologies for spreading equipment



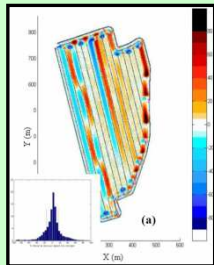
Environmental Technologies and Sustainable Development Programme



The context is ripe for developing environmental technologies. In 2004, the European Commission launched ETAP (the Environmental Technology Action Plan), which, in 2010, will lead to a directive introducing an ETV (Environmental Technology Verification) system, so as to facilitate recognition of manufacturers' efforts by the market. In France, the Grenelle Environment Forum has also recommended investing in "environmentally-friendly intensive and sustainable agriculture". AXEMA in France, along with CEMA and ENTAM in Europe, are keen to take part in this initiative.



In relation to the AgEng 2010 Conference, the focus will be on applied research in the area of eco-design practices serving agricultural equipment.



**Eco-design** is the "incorporation of environmental considerations into the design or redevelopment of a product so as to improve its environmental performance throughout its life cycle."

#### The aims of this Symposium:

- to present the innovative methods and tools being developed, particularly those stemming from the ANR-ECODEFI project,
- to see how the concept is being applied in firms in the sector,
- to reflect on ways in which its implementation could be increased, with an ambition that could go as far as European eco-labelling.



### Provisional agenda

An expected 20 talks over 4 plenary sessions in 2 days

#### Friday 3 September 2010 – Campus des Cézeaux - ENGREF or Physics Faculty lecture hall - Aubière (Clermont-Ferrand)

**09:00:** Coffee – Welcome

**09:30:** Introductory talks

#### Session 1: Assessing the environmental performances of agricultural equipment under real and/or simulated conditions of use

*From measurements taken on machines on the test bench or in situ in the field, two types of questions must be considered: How can the results of these technological performances be incorporated into computational models leading to an estimation of the environmental impacts (compaction, nitrate leaching, etc.) ? – How can these multi-criteria analysis methods take into account the high variability of operation related to the soil and climate context and to the influence of the operators' behaviour?*

*On the need to have methods and tools specifically adapted to the agricultural environment*

#### Session 2: The levers of technological creativity to benefit eco-design

*Design and creativity methodologies such as TRIZ can be used to generate innovative technological solutions – What experiments have been undertaken in this field and what specific lessons or approaches can be drawn from them?*

*On the feasibility of these innovation methods for speeding up eco-design*

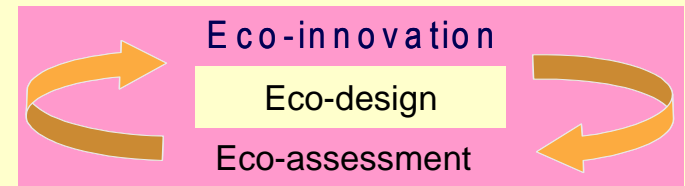
#### Session 3: Present-day implementation of eco-design in this industrial agricultural equipment sector

*Presentation of real-life experiences by companies having implemented the initiative and that have wholly or partially integrated the various phases in the life cycle: manufacture, use, recycling*

*Problems encountered, improvements required, actual efficiency at the end of the day*

**17:00:** Visit to IFMA's Mecaprod platform

**20:00:** Dinner – jointly with the **ROBOTICS 2010 Symposium**



#### Saturday 4 September 2010 – Cemagref Experimental Site at Montoldre (Allier department)

**09:00:** Departure by coach from Campus des Cézeaux - Aubière (Clermont-Ferrand)

**10:15:** Arrival at Montoldre site – Coffee and welcome

#### 10:30 – 12:30: Presentation of 3 examples of Eco-innovation applied to agricultural machinery

**12:30 – 13:30:** Lunch on site

#### Session 4: Outlook for eco-labelling of agricultural equipment in Europe

*How does the upcoming applicability of ETV stand in Europe ? - What eco-labels have already been introduced in some European countries? – What benefits can the makers and end customers expect of them? - Has eco-efficiency in the development field been measured in certain cases?*

#### 15:30 – 16:30: Debate about how eco-design can really develop in the sector

#### Back to Clermont-Ferrand

#### Important dates:

- ✓ 14 May 2010: submission of abstracts
- ✓ 4 June 2010: notification of acceptance
- ✓ 5 July 2010: submission of full papers
- ✓ 23 July 2010: final programme

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