

## ABOUT THE SWAT MODEL:

The **Soil and Water Assessment Tool (SWAT)** is a public domain model actively supported by the USDA Agricultural Research Service at the Grassland Soil and Water Research Laboratory in Temple, Texas, USA. The main purpose of the model is to predict the effects of management decisions on water, nutrients, sediments and pesticide yield with reasonable accuracy on large, ungauged river basins. It is a distributed model that simulates all previously mentioned constituents on a daily time step. SWAT defines hydrology by a specific list of parameters including interception, evapotranspiration, surface runoff, lateral flow, soil percolation and groundwater flow, as well as river routing processes.

Please visit <http://swatmodel.tamu.edu/> for further details about SWAT and a free software download.

## About ECOLAB:

**EcoLab – Laboratoire d'écologie fonctionnelle** is a joint research unit (UMR 5245) involving the CNRS, the University Paul Sabatier of Toulouse III and the National Polytechnic Institute of Toulouse. It was established on 1 January 2007.

**EcoLab's** objective is the combined study of communities and ecosystems together with their interrelations. The role of biodiversity in ecosystem functions, the influence of disturbance regimes on biodiversity, the dynamics and effects of pollutants (from the organism to the ecosystem), the modelling of ecosystem structure and functioning, and the bioremediation and restoration of natural environments are major research themes common to the whole laboratory. Such themes typically belong to the science of the natural environment, at the interface of life sciences and universe sciences.

Please visit <http://www.ecolab.ups-tlse.fr/> for further details about ECOLAB

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[www.cnrs.fr](http://www.cnrs.fr)



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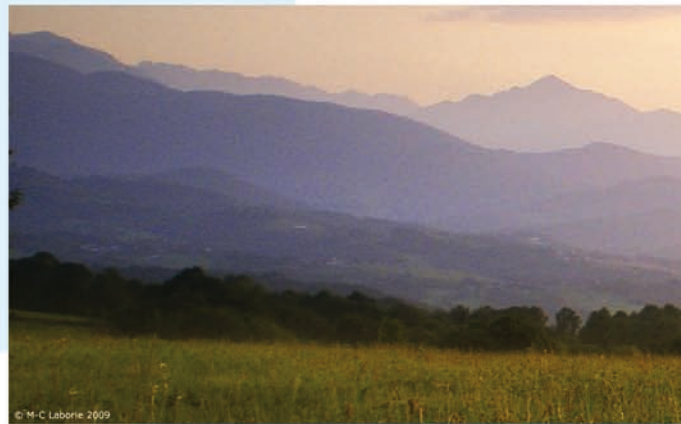
## "Le Bois Perché" à ASPET

The workshop will be held in the village of Aspet "au relais du bois perché" (90 km from Toulouse) at 500 m altitude in the Pyrenean piedmont.

### ACCOMMODATION:

The workshop fee includes:

- Transport by bus between Toulouse airport/Toulouse train station and the workshop site on the first day (1 June) and the last day (4 June).
- Single room for 3 nights.
- Breakfasts, lunches (2 per day) and coffee breaks.



# SWAT

## workshop

1-4 June 2010

ECOLAB, Toulouse, France





# PROGRAMME OF THE SWAT WORKSHOP

1-4 June 2010

## DAY 1 (Tuesday, June 1st):

**10.00:** Toulouse Blagnac airport, transport by bus to the workshop site

**10.30:** Matabiau/Toulouse train station, transport by bus to the workshop site

**12.00-14.00:** Welcome/Lunch

**14.00-17.00:** Welcome/introductions, model overview (theory), model applications (theory). Introduction to SWAT/ArcGIS interface (ArcSWAT), watershed delineation.

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## DAY 2 (Wednesday, June 2) :

**09.00-12.00:** Landuse and soil overlay, HRU delineation, weather and remaining inputs to develop the SWAT model (including point sources).

**12.00-14.00:** Lunch

**14.00-17.00:** Review of summary outputs. Finishes with a SWAT simulation using ArcSWAT.

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## DAY 3 (Thursday, June 3) :

**09.00-12.00 :** Visualisation and interpretation of SWAT outputs through VizSWAT, Introduction of calibration and validation techniques (theory).

**12.00-14.00 :** Lunch

**14.00-17.00 :** Building, calibrating and evaluating an ArcSWAT model using participants' own data sets in small groups. All participants should bring their own complete data sets.

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## DAY 4 (Friday, June 4) :

**09.00-12.00 :** Building, calibrating and evaluating an ArcSWAT model using participants' own data sets in small groups. All participants should bring their own complete data sets.

**12.00-14.00 :** Lunch

**14.00 :** Departure by bus to Matabiau/Toulouse train station and Toulouse Blagnac airport.

**16.00 :** Matabiau/Toulouse train station.

**16.30 :** Toulouse Blagnac airport.

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## ORGANISING COMMITTEE

- Dr. Sabine Sauvage (ECOLAB, France)
- Dr. José Miguel Sánchez-Pérez (ECOLAB, France)
- Dr. Raghavan Srinivasan (Texas A&M, USA)
- Ms Catherine Monier (ECOLAB, France)

**HOW TO PRE-REGISTER:** (closing date 16 April 2010)

[http:// dr14.azur-colloque.cnrs.fr](http://dr14.azur-colloque.cnrs.fr)

## For more information contact:

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## Workshop fees :

- CNRS members and French public servants: Free of charge
- International students : 250€
- Standard : 500€



Laboratoire d'Ecologie Fonctionnelle