

## Fall Courses on Ecological Modelling

Six options (3 days for each course) :

- Climate Modelling (Serge Planton)
- Structurally Dynamic Modelling (Sven Erik Jørgensen, Sabine Sauvage)
- Time Series Analysis (Christophe Baehr)
- Machine Learning in Ecological Modelling (Young-Seuk Park & Sovan Lek)
- Ecosystem Theory (Sven Erik Jørgensen)
- Uncertainty of Ecological Models
- Modelling and simulating agro-ecosystems (Gauthier Quesnel, H el ene Raynal)

All lectures will be done during the week before the conference (October 20-25, 2013) with the possibility to organize the visit of Pyrenees Mountains or circuit to visit medieval cities during the weekend (October 26-27, 2013). The cost of participation will be 120  for each lecture course (incl. 3 days course and all teaching materials). The lecture course will be open for 10 candidates minimum.

## Organizing Committee

- Sovan Lek (Toulouse University, France)
- Christophe Baehr (M et eo-France / CNRS, France)
- Laetitia Buisson (Toulouse University, France)
- Philippe Caille (M et eo-France, France)
- Ga el Grenouillet (Toulouse University, France)
- Christophe Laplanche (INPT, Toulouse, France)
- Claude Monteil (INPT, Toulouse, France)
- Young-Seuk Park (Kyung Hee University, Korea)
- R egis Sabbadin (INRA, Toulouse, France)
- Sabine Sauvage (CNRS, France)

## More Information

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<http://www.meteo.fr/cic/meetings/2013/ISEM>

## International Scientific Advisory Committee

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## International Society for Ecological Modelling



The 19th biennial ISEM conference

## Ecological Modelling for Ecosystem Sustainability in the context of Global Change



Universit   
de Toulouse



First Circular

**October 28 – 31, 2013  
Toulouse, France**

Hosted by Toulouse University  
and M et eo-France

*We live in a changed and changing world. Never before on Earth has the importance of sustainable development resonated with so many people. Without immediate and effective action, our planet will face unyielding pressure on the environment. The action needs to be guided by a scientific understanding of ecosystem function. Research, especially in Ecological Modelling, is crucial to support the sustainable development paradigm, in which economy, society and environment are integrated and positively reinforcing each other. The International Society for Ecological Modelling (ISEM) is an important and active research community contributing to this arena. Some progress towards gaining a better understanding of the processes of global change has been achieved, but much more is needed. This conference will provide a forum to present current research using models to investigate our actions to mitigate and adapt to change as well as how to preserve and protect ecosystems and their services.*

## Publications - Awards

Both oral and poster sessions high quality accepted papers will be published in Special Issues of *Ecological Modelling*. The Best Conference Paper Award honors the author(s) of the highest quality papers. We also will have two awards : one for the best paper by young ecological modellers in Ecological Modelling in 2013 and one for 2014. The author of Best Paper Awards will be recognized in the conference.

## Keynote Speakers

- Sven E. Jørgensen  
University of Copenhagen, Denmark  
Associate Editor of Ecological Indicators
- Brian D. Fath  
Towson University, USA  
Editor-in-Chief of Ecological Modelling
- Pierre Legendre  
University of Montreal, Canada
- Philippe Ciais  
CEA, Sayclay, France
- Pierre Del Moral  
INRIA – Bordeaux, France
- Srinivasan Raghavan  
Texas A&M University and Texas AgriLife Research, USA
- Harald Sverdrup  
Lund Institute of Technology, Lund, Sweden

## Location and Venue

The conference will be held in the Centre International de Conférences de Météo France at Toulouse, in association with Toulouse University, CNRS and INRA (France).

## Accommodations

- Hotels will be proposed for all participants.
- Students' rooms will be available for students.

## Important Dates (Deadlines)

- Abstract Submission : May 20, 2013
- Abstract Acceptance Notice: June 20, 2013
- Workshop proposal: May 31, 2013
- Early Registration : June 30, 2013

## Conference topics

Modelling for Global Change  
Modelling of Climate Changes: IPCC scenarios  
The Regional Impacts of Climate Change  
Sustainable Ecosystem Management  
Ecological Engineering  
Ecosystem Services  
Ecology and Society: linking ecology, economy and sociology  
Management of Natural Resources

Modelling for Biodiversity and Conservation  
Modelling for Invasive Species  
Modelling for Habitat Suitability

Modelling for Eco-hydrology  
Modelling for Risk Assessment and Ecotoxicology  
Modelling for Quantifying Gas Emissions  
Modelling Biogeochemical Cycles  
Ecosystem Networks  
Modelling Contaminants Transportation  
Monitoring and Assessment for Ecosystem Dynamics  
Ecological Indicators  
Linking Structure and Function of Ecosystems  
Ecological modelling for use in environmental risk assessment.

Modelling Aquatic Ecosystems  
Modelling Terrestrial Ecosystems  
Modelling Urban Ecosystems  
Modelling Agricultural and Forest Ecosystems  
Modelling Wetlands Ecosystems  
Linking Terrestrial and Aquatic Ecosystems.

Model-Data Fusion  
Development of Modeling Tools  
Tools for End Users  
Ecological Forecasting,  
Sensitivity Analysis  
Time Series Analysis  
Remote Sensing  
Upscaling-Downscaling