

24-25 September 2014

National Museum of Natural History  
36 rue Geoffroy Saint-Hilaire  
Paris, France

# INTERNATIONAL CONFERENCE ON EXPERIMENTATION IN ECOSYSTEM RESEARCH IN A CHANGING WORLD: CHALLENGES AND OPPORTUNITIES

## CONTEXT

The Earth's rapidly changing environment is putting critical ecosystem services at risk. There are many challenges involved in understanding global environmental changes, and in providing societies with the policy-relevant knowledge base to deal with them. These challenges will reach across many aspects of scientific endeavour. Indeed, the research community requires state-of-the-art research infrastructures (RIs) to have the capability to explain and predict global environmental changes. In this context the Experimentation in Ecosystem Research conference will provide a platform for discussions on cutting-edge technological tools, large-scale integrative experimental design, technical constraints, data access and last but not least ecosystem modelling. The conference will attract speakers and delegates from around the world and will offer opportunities to reinforce global cooperation.

## MAIN TOPICS

- **GRAND CHALLENGES:** With the current set of experimental research infrastructures in ecosystem science, do we have the capacity to tackle the grand challenges of today and tomorrow?
- **IN VITRO AND IN NATURA:** How realistic are they, and how can they be better linked?
- **TECHNOLOGIES:** Which emerging technologies could enhance (or are needed for) the performance and services offered by our RIs?
- **DATA:** Towards an e-infrastructure for ecosystem research: challenges and opportunities.
- **MODELLING:** How accurate is our capacity to forecast and upscale, and what is missing?  
How can we communicate uncertainty?  
How do we strike the right balance between modelling and experiments?

## CONFERENCE FREE OF CHARGE

### FOR MORE INFORMATION

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### CONFERENCE WEBSITE

<https://colloque.inra.fr/expeer-conference>

## SESSIONS

- 1. Research infrastructure: opportunities to address the impact of global change?**
  - Russ Lea, NEON, Boulder, CO, USA.
  - Ulrich Schurr, Forschungszentrum Jülich, DE.
  - Henry Janzen, Agriculture and Agri-Food Canada, Lethbridge, CA.
- 2. Linking *in natura* to *in vitro* experimentation: tools to understand, handle and solve problems of a planet under pressure.**
  - Martin Schädler, UFZ Leipzig, DE.
  - Paul Verburg, University of Nevada, Reno, NV, USA.
- 3. New tools to meet new challenges: emerging technologies for exploring the unknown processes in ecosystem science.**
  - Kai Totsche, University of Jena, DE.
  - Gail Taylor, Southampton University, UK.
- 4. Data access and modelling.**
  - Alex Hardisty, Cardiff University, UK.
  - David Turner, AEKOS, Adelaide, AUS.
  - Pete Smith, University of Aberdeen, UK.
  - John Roy Porter, University of Copenhagen, DK.
- 5. Participatory session: how to ensure ecosystem science responds to the challenges of tomorrow.**

## SCIENTIFIC COMMITTEE

Chair: **Abad Chabbi**, INRA, FR  
**Michael Bahn**, University of Innsbruck, AT  
**Nina Buchmann**, ETH Zürich, CH  
**Scott Collins**, University of New Mexico, US  
**Wouter Los**, University of Amsterdam, NL  
**Franco Miglietta**, CNR (Consiglio Nazionale delle Ricerche), IT  
**Ivan Nijs**, University of Antwerp, BE  
**Pete Smith**, University of Aberdeen, GB  
**Klaus Steenberg Larsen**, DTU (Technical University of Denmark), DK  
**Harry Vereecken**, Forschungszentrum Jülich GmbH, DE  
**Steffen Zacharias**, UFZ (Helmholtz Centre for Environmental Research) Leipzig, DE

## ORGANISING COMMITTEE

**Abad Chabbi**, INRA, FR  
**Emilie Guldner**, INRA, FR  
**Luke Lauprêtre**, INRA Transfert, FR  
**Michael Mirtl**, Umweltbundesamt, AT  
**Cornelia Rumpel**, CNRS, FR  
**Yuchong Tang**, INRA Transfert, FR

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