



Marie Curie Series of Events

**METIER**

"METHODS of Interdisciplinary Environmental Research"

## **METIER Final Conference**

***“Climate – Water – Biodiversity – Land Use:  
Young Scientists Tackling Complex Environmental Challenges”***

**Brussels, 4 – 6 November 2009**

**Venue: Charlemagne Building, Room Jean Durieux**

### **Programme**

#### **Wednesday, 4 November**

- 13:00 Registration & Sandwiches
- 14:00 Opening of "preconference" by METIER Steering Committee / Introduction to Logistics (Karin Frank, Jan Marco Müller)
- 14:20 Lectures by the organisers of the training courses, giving updates on recent developments and pressing challenges (10 minutes each)
- Remote Sensing of the Atmosphere  
*Frank Dentener (JRC Institute for Environment and Sustainability, European Commission)*
  - Information Management in Environmental Sciences  
*Pierre Bazile (Cemagref/Agroparistech, France)*
  - Remote Sensing of the Land Surface  
*Heiko Balzter (University of Leicester, UK)*
  - Geo-visualization in Environmental Research  
*Ron van Lammeren (Alterra / Wageningen University and Research Centre, The Netherlands)*
  - Ecological Modelling  
*Karin Frank (UFZ – Helmholtz Centre for Environmental Research, Germany)*
  - Remote Sensing of the Hydrosphere  
*Sirkka Tattari (SYKE – Finnish Environment Institute, Finland)*
  - Environmental Scenario Analysis  
*Henning Høgh Jensen (NERI – National Environmental Research Institute / University of Aarhus, Denmark)*

*Chair: Jan Marco Müller (JRC – Joint Research Centre, European Commission)*

15:30 Opportunities in the Marie Curie Programme  
*David Pina, Research Executive Agency*

16:00 Careers in interdisciplinary environmental research – Discussion with management representatives of PEER member institutes

Chair:

*Ron van Lammeren (Alterra / Wageningen University and Research Centre, The Netherlands)*

Panelists:

- *Pernille Brandt (JRC Institute for Environment and Sustainability, European Commission)*
- *Jackie Burger (Alterra / Wageningen University and Research Centre)*
- *Juha Kämäri (SYKE – Finnish Environment Institute, Finland)*
- *Anja Skjoldborg Hansen (NERI – National Environmental Research Institute / University of Aarhus, Denmark)*

16:45 Coffee Break

17:15 Presentations from METIER participants on how they applied the knowledge gained in the METIER courses in practice (10 minutes + 5 minutes questions each)

### **Remote sensing of air, land and water (Room Sicco Mansholt)**

*Chair: Heiko Balzter (University of Leicester, UK)*

- *Maria Gabrielle Villani (previously Joint Research Centre, European Commission):  
Inverse modelling of CH<sub>4</sub> emissions: Examples of derived emissions from the assimilation of ground-based measurements and satellite retrievals (Course 1)*
- *Judith Horn (Ludwig-Maximilians-Universität München, Germany):  
Development of hybrid stochastic-mechanistic models for land surface to atmosphere water and carbon fluxes (Course 1)*
- *Artur Gil (University of the Azores, Portugal):  
Using Remote Sensing for Invasive Alien Plants Species Detection and Mapping in Pico da Vara Protected Area (S. Miguel Island, Azores Archipelago, Portugal) (Course 3)*
- *Marlies Gumpenberger (Potsdam Institute for Climate Impact Research, Germany):  
Wild fires and land use / land use change related fires for the 20th and the 21st century (Course 3)*
- *András Zlinszky (Balaton Limnological Research Institute, Hungary):  
Satellite and LIDAR based remote sensing of water quality parameters on Lake Balaton (Course 6)*
- *Taleb Odeh (UFZ – Helmholtz Centre for Environmental Research, Germany):  
Groundwater flow within the fault system of Wadi Zerka Ma'in catchment area using remote sensing and GIS methods (Course 6)*
- *Aziz Abouabdillah (IRSA – Water Research Institute, Italy):  
Hydrological modelling for alternative scenarios in a semi-arid catchment (Course 6)*

## **Data management, visualisation, modelling and forecasting (Room Jean Durieux)**

*Chair: Pierre Bazile (Cemagref/Agroparistech, France)*

- *Patrizia Tenerelli (Joint Research Centre, Institute for the Protection and Security of the Citizen, European Commission):  
Interdisciplinary methods for analysis of natural resources and conflicts (Course 2)*
- *Roman Gerlach (Institute of Methodologies for Environmental Analysis, Italy):  
Web based spatio-temporal visualization and analysis of the Siberian Earth System Science Cluster (SIB-EES-C) (Course 4)*
- *Samual Ogoda Ochola (Kenyatta University Nairobi, Kenya):  
Rural Water Supply in the flood prone areas of Nyando river, Kenya (Course 4)*
- *Víctor Daniel Avila Akerberg (University of Freiburg, Germany):  
Forest quality in Mexico City. Assessment towards ecological restoration of ecosystem services (Course 4/5)*
- *Marianne Darbi (Leibniz Institute of Ecological and Regional Development, Germany):  
Exploring internet research and expert interviews - Methods to identify approaches to compensation for impacts on biological diversity at global scale (Course 5)*
- *Marleen Maria Petra Cobben (Alterra / Wageningen University and Research Centre, The Netherlands):  
Modelling climate impacts on genetic diversity in metapopulations (Course 5)*
- *Mikko Juhani Dufva (Finnish Environment Institute, Finland):  
Scenario analysis in river basin planning (Course 7)*
- *Nelson Abila (University of Vaasa, Finland): Bioeconomic and environmental modelling for biofuel production in Nigeria (Course 7)*

19:15 End of first day, free evening in Brussels

### **Thursday, 5 November**

08:30 Registration

Morning Session

*Chair: Leen Hordijk, Director of the JRC Institute for Environment and Sustainability, European Commission*

09:00 Opening words by the PEER chair

*Pat Nuttall, Director of the Centre for Ecology & Hydrology (UK)*

09:15 Opening words by the host

*Roland Schenkel, Director General of the Joint Research Centre (European Commission)*

09:30 Presentation of METIER by the Coordinator

*Karin Frank, UFZ – Helmholtz Centre for Environmental Research (Germany)*

- 09:45 Invited Master Lecture I:  
**"Four Challenges or one? Population, Food, Energy, Climate"**  
*Patrick Cunningham, Chief Scientific Adviser to the Government of Ireland*
- 10:45 Discussion
- 11:15 Coffee Break
- 11:40 Senior Scientist Lecture 1 – Climate  
*Manfred Grasserbauer, Former Director of the JRC Institute for Environment and Sustainability, University of Vienna (Austria)*
- 12:00 Young Scientist Lecture 1 – Climate  
*Alessandro Dosio, JRC Institute for Environment and Sustainability (European Commission)*
- 12:20 Discussion
- 12:40 Lunch
- Afternoon Session  
*Chair: Frank Dentener (JRC, European Commission)*
- 13:40 Senior Scientist Lecture 2 – Water  
*Juha Kämäri, Research Director, SYKE – Finnish Environment Institute (Finland)*
- 14:00 Young Scientist Lecture 2 – Water  
*Vera Thiemig, JRC Institute for Environment and Sustainability (European Commission)*
- 14:20 Discussion
- 14:40 Senior Scientist Lecture 3 – Biodiversity  
*Josef Settele, Coordinator of the Integrated Project ALARM, UFZ – Helmholtz Centre for Environmental Research (Germany)*
- 15:00 Young Scientist Lecture 3 – Biodiversity  
*Veronique Vos (Wageningen University and Research Centre, The Netherlands)*
- 15:20 Discussion
- 15:40 Coffee Break + Poster Session 1
- 16:30 Senior Scientist Lecture 4 – Land Use  
*Dirk Wascher (Alterra / Wageningen University and Research Centre, The Netherlands)*
- 16:50 Young Scientist Lecture 4 – Land Use  
*Florian Hartig (UFZ – Helmholtz Centre for Environmental Research, Germany)*
- 17:10 Discussion
- 17:30 Working Groups I
- Climate & Water (Room Jean Durieux)

*Chair: Ron van Lammeren (Alterra / Wageningen University and Research Centre, The Netherlands)*

*Rapporteur: Frank Dentener (JRC-IES, European Commission)*

*Guest Speaker: Bas Eickhout, Member of the Committee for Environment, Public Health and Food Safety, European Parliament*

- Biodiversity & Land Use (Room Sicco Mansholt)

*Chair: Karin Frank (UFZ – Helmholtz Centre for Environmental Research (Germany))*

*Rapporteur: Pierre Bazile (Cemagref/Agroparistech, France)*

*Guest Speaker: Martin Scheele, Head of Unit "Environment, GMO and Genetic Resources", DG Agriculture and Rural Development, European Commission*

19:00 End / Joint walk to the conference dinner

19:30 Conference Dinner

Venue: Autoworld, Parc du Cinquantenaire 11 (<http://www.autoworld.be/>)

## **Friday, 6 November**

09:00 Working Groups II

- Climate & Land Use (Room Jean Durieux)

*Chair: Dirk Wascher (Alterra / Wageningen University and Research Centre, The Netherlands)*

*Rapporteur: Heiko Balzter (University of Leicester, UK)*

*Guest Speaker: MEP Vittorio Prodi, Member of the Committee for Environment, Public Health and Food Safety, European Parliament*

- Biodiversity & Water (Room Sicco Mansholt)

*Chair: Eva Maria Haas (Université Catholique de Louvain, Belgium)*

*Rapporteur: Svetlana Lysak (JRC-IPSC, Institute for the Protection and Security of the Citizen, European Commission)*

*Guest Speaker: Enrico Pironio, Natural Resources Unit, EuropeAid Cooperation Office, European Commission*

10:30 Coffee Break + Poster Session 2

11:15 Working Groups III

- Climate & Biodiversity (Room Jean Durieux)

*Chair: Paul Scholefield (CEH – Centre for Ecology & Hydrology, UK)*

*Rapporteur: Karin Frank (UFZ – Helmholtz Centre for Environmental Research (Germany))*

*Guest Speaker: Karin Zaunberger, Officer in charge of the Climate & Biodiversity Interface, Biodiversity Unit, DG Environment, European Commission*

- Water & Land Use (Room Sicco Mansholt)

*Chair: Pierre Bazile (Cemagref/Agroparistech, France)*

*Rapporteur: Ömer Faruk Durdu (Adnan Menderes University, Turkey)*  
*Guest Speaker: Jacques Delsalle, Policy Officer for Adaptation to Climate Change, Water Unit, DG Environment, European Commission*

12:45 Lunch

14:00 Presentation of working group results

14:30 Invited Master Lecture II:

**"Next Generation Digital Earth"**

*Max Craglia, JRC Institute for Environment and Sustainability (European Commission)*

15:30 Discussion

15:45 Conclusions by the PEER chair

*Pat Nuttall, Director of the Centre for Ecology & Hydrology (UK)*

16:00 End