

RESEARCH CONFERENCES

**ESF-FMSH Entre-Sciences Conference in
Interdisciplinary Environmental Sciences**

**New Methodologies and
Interdisciplinary Approaches in
Global Change Research**

IGeSA, Porquerolles • France
05-10 November 2008

Chair: Joël Guiot, CEREGE/ECCOREV, FR
Vice-Chair: Sylvie Thoron, GREQAM, FR
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**A French EU
Presidency Event**



**Global Change
Research**

Programme

Wednesday 5 Nov.

Late afternoon / early evening	Registration at the ESF-RC desk
19.00	Welcome Drink
20.00	Supper

Thursday 6 Nov.

9.15-10.00	Conference Opening Alain d'Iribarne (General Director FMSH), Angela Procoli (Head of the FMSH Entre-Sciences Programme), Volkmar Lauber (ESF representative), Joël Guiot (chair of the conference), Sylvie Thoron (vice-chair of the conference)
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Session 1: Paleoclimatology

Chair: **Guy P. Brasseur**, ESSL Laboratory, US

10.00-10.25	André Berger Institut G. Lemaître, UCL, BE <i>The start and the end of our interglacial</i>
10.25-10.50	Michael Mann Penn State Univ., US <i>Global Climate Change: Past and Future</i>
10.50-11.10	Debate
11.10	Coffee break
11.25-11.50	Joël Guiot CEREGE-ECCOREV, FR <i>Long term climate variability: from past to future and from data to models</i>
11.50-12.00	Pierre-Alain Danis CNRS, FR <i>Comparison of simulated tree-ring cellulose $\delta^{18}\text{O}$ at the European scale</i>
12.00-12.10	Vincenzo Amato University of Molise, IT <i>Holocene climatic changes and their effect on morphodynamics and sedimentation in Campania</i>
12.10-12.30	Debate
12.30	Lunch

Session 2: Climate Change Models at Various Scales

Chair: Michael Mann, Penn State University, US

- 14.30-14.55 **Sylvie Joussaume**
CNRS, FR
Climate models : learning from the past long-term climate variability
- 14.55-15.20 **Guy P. Brasseur**
ESSL Laboratory, US
From Climate Models to Earth System Models
- 15.20-15.30 **Anni Reissell**
UHEL, Helsinki, FI
Cross-disciplinary international research on land-atmosphere interactions
- 15.30-15.55 Debate
- 15.55 Coffee break
- 16.10-16.35 **Hughes Goosse**
Institut G. Lemaître, UCL, BE
Modelling forced and internal climate variability during the last millennium
- 16.35-17.00 **Serge Planton**
Météo France, FR
Detection and attribution of climate change to different causes
- 17.00-17.25 **Jesus Fidel Gonzalez-Rouco**
UCM, ES
Borehole climatology and model simulations: steps to integrated assessment
- 17.25-18.00 Debate
- 18.00-18.10 **Joshua Fisher**
Environmental Change Institute, University of Oxford, UK
The state of UK climate modelling
- 18.10-18.20 **Changhui Peng**
ISE, Université du Québec à Montréal, CA
Data-Model Fusion Approach in Global Change Research: Recent Development and Future Challenges
- 18.20-18.30 Debate
- 19.00 Dinner
- 20.00-21.30 Poster Session I

Friday, 7 Nov.

Session 3: Social, Ecological and Climatic Scenarios

Chair: Sylvie Thoron, GREQAM, FR

09.00-09.25	Wolfgang Cramer Potsdam Institute for Climate Impact Research, DE <i>Are European ecosystems vulnerable to climate change?</i>
09.25-9.50	Michel Dequé Météo France, FR <i>Regional Climate change and extremes</i>
09.50-10.15	Stephane Hallegatte CIRED/Météo-France, FR <i>A Roadmap to Assess the Economic Cost of Climate Change with an Application to Hurricanes in the United States</i>
10.15-10.45	Debate
10.45	Coffee break
11.00-11.10	Kirsten Zickfeld SEOS, University of Victoria, CA <i>Setting cumulative emissions targets to reduce the risk of 'dangerous' climate change</i>
11.10-11.20	Alexander Popp Potsdam Institute for Climate Impact Research, DE <i>Food demand, productivity growth and the spatial distribution of land and water use: a global modeling approach</i>
11.20-11.30	Debate
11.30-11.55	Jason Shogren Univ. of Wyoming, US <i>Linking adaptation and Mitigation for climate risk reduction</i>
11.55-12.05	Hans-Martin Füssel Potsdam Institute for Climate Impact Research, DE <i>Climate, geography and macroeconomics: revised data, refined analysis and new findings</i>
12.05-12.15	Natalia Lemeshko State Hydrological Institute, RU <i>The largest lakes and reservoirs of Russia as a priority water resource for society</i>
11.50-12.00	Debate
12.30	Lunch
Afternoon	Half-day excursion
19.00	Dinner
20.00-21.30	Poster Session II

Saturday, 8 Nov.

Session 4: Impacts of Global Change

Chair: Jean-Charles Hourcade, CIRED, CNRS, FR

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| 09.00-9.25 | Bernard Seguin
INRA, FR
<i>The impacts of climate change on continental ecosystems</i> |
| 09.25-09.50 | Philippe Ciais
LSCE/IPSL, FR
<i>Recent trends and vulnerabilities in the global carbon cycle</i> |
| 09.50-10.15 | Dominique Chauvin
TOTAL Holding, FR
<i>Industrial and Environmental Policies: reciprocal impacts</i> |
| 10.15-10.45 | Debate |
| 10.45 | Coffee break |
| 11.00-11.10 | Anna Serra Llobet
ICTA, Universitat Autònoma de Barcelona, ES
<i>Turning hazards into resources?: Climate change, floods and coastal wetlands in the Costa Brava (North-East Iberian Peninsula)</i> |
| 11.10-11.20 | Godwin Anjeinu Abu
University of Agriculture, Makurdi, Benue State, NG
<i>Social Impact of Global Environmental Change on Farming Communities on the Ogoli River Bank in Otukpo Area of Benue State, Nigeria</i> |
| 11.20-11.30 | Debate |
| 11.30-11.40 | Ruthie Arieli
Ben Gurion University of the Negev, IL
<i>The effect of thermal pollution on benthic foraminiferal assemblages, in the Mediterranean shore face adjacent to Hadera power plant (Israel)</i> |
| 11.40-11.50 | Anton Syroeshkin
Peoples' Friendship University of Russia, Moscow, RU
<i>Influence of the warming of West Arctic on circulation of viruses and bacteria in coastal biogeocenoses</i> |
| 11.50-12.00 | Zbigniew Zwolinski
Institute of Paleogeography and Geoecology, Adam Mickiewicz University, PL
<i>Present-day geomorphological changes in polar regions</i> |
| 12.00-12.15 | Debate |
| 12.30 | Lunch |

Session 5: Climate change policies I

Chair: Sylvie Joussaume, CNRS, FR

- 14.30-14.55 **Jean-Charles Hourcade**
CIRED, CNRS, FR
The Economics of the Climate/Development of the Gordian Knot; Beyond a Sound Pessimism
- 14.55-15.20 **Uno Svedin**
The Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning, SE
Interlocking natural and social systems - resilience, governance and research policy considerations
- 15.20-15.40 Debate
- 15.40 Coffee break
- 15.55-16.20 **Romain Duval**
OECD, FR
Post-2012 options to reduce greenhouse gas emissions
- 16.20-16.45 **Richard Somerville**
Scripps Institution of Oceanography, US
The Intergovernmental Panel on Climate Change and the Challenges of Climate Policy, Equity and Ethics
- 16.45-17.05 Debate
- 17.05-17.30 Forward Look Session
- 20.00 Conference Dinner

Sunday, Nov. 9th

Session 6: Climate change policies II

Chair: Richard Somerville, Institute of Oceanography, US

- 09.00-9.25 **Gaël Callonnec**
ADEME, FR
How to foster the economic and societal technical solutions?
- 09.25-9.50 **Sylvie Thoron**
GREQAM, FR
International negotiations on climate change: How to take advantage of risk aversion to improve the conditions for the emergence of a consensus
- 09.50-10.00 **Johann Dupuis**
IDHEAP, Chavannes près Renens, CH
The sustainability of Kyoto's Architecture: Where did the victims of climate change go?
- 10.00-10.30 Debate
- 10.30 Coffee Break

10.45-10.55	Augustin Fragnière University of Lausanne, CH <i>Carbon offsetting: an ethical and psychological approach</i>
10.55-11.05	Okoubi Djedje LED, Université Paris VIII, FR <i>The intergenerational equity: a concept to build for sustainability, the case of global warming</i>
11.05-11.30	Debate
11.30-11.40	Antony Millner Magdalen College Oxford, UK <i>The costs of strategic adaptation in a simple conceptual of climate change</i>
11.40-11.50	Komal Raj Aryal Disaster and Development Centre, Northumbria University, UK <i>Climatic hazard mitigation through risk and resilience committees in Nepal</i>
11.50-12.00	Debate
12.30	Lunch

Session 7: New perspectives on global change research

Chair: Bernard Seguin, INRA, FR

14.30-16.00	<i>Round table</i>
16.00-16.30	Best Poster Award Ceremony
19.00	Dinner & Get together

Monday, 10 Nov.

Breakfast & Departure

Posters & Short Oral Presentations

Instructions for poster presentations: Posters should be simple, brief and prepared having in mind, primarily, their use as a basis for the presentation. However, they should be also self-intelligible. Each poster presentation must have a title including the title of the paper, author(s), affiliation(s), city and country. As poster should be readable by more than one person at the same time, a letter size of at least 6 mm in height for the text and 10 mm for the section headings is suggested. Poster boards have the following dimensions: 150 cm (Vertical) x 100 cm (Horizontal). Any necessary equipment for attaching the sheets to the board will be available near the poster location. An author is expected to be at the poster location during the presentation time assigned for the relevant poster session. Posters can be placed on the stands in the morning of the session day and will have to be removed at the end of the session.

Instruction for short talk presentations: Short Talks will consist of a 8-minute presentation with an additional 2 minutes for one question.

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