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TRACKING

CLIMATE CHANGE



Spotlight
New Clues
Surface on Mars

Profile
Margaret Buckingham
2013 CNRS Gold Medal



Photocatalysis

Science and Application for Urban Air Quality

15-17 April 2014
Lyon, France

Scientific Topics

Basics & Physical
Chemistry
of
Urban Air
Pollution
Photocatalysis



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CONFÉRENCES JACQUES-MONOD 2014

Institute of Biological Sciences
and Institute of Ecology and Environment

- **From emerging to pandemic viruses: interplay between host ecology and viral evolution**
Roscoff (Bretagne) April 2-6, 2014
Deadline for applications: January 10, 2014
- **Optical imaging of brain structure and function on multiple spatial scales**
Roscoff (Bretagne) June 11-15, 2014
Deadline for applications: March 3, 2014
- **Infectious diseases as drivers of evolution: the challenges ahead**
Roscoff (Bretagne) September 6-10, 2014
Deadline for applications: May 2, 2014
- **Cell cycle: bridging scales in cell division**
Roscoff (Bretagne) 11-15 October 11-15, 2014
Deadline for application: June 30, 2014
- **Molecular basis for membrane remodelling and organization**
Roscoff (Bretagne) 15-19 November 15-19, 2014
Deadline for applications: September 1, 2014



Instituts
thématiques

Inserm

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de la santé et de la recherche médicale

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Editorial

BY JEAN-FRANÇOIS STÉPHAN,*

DIRECTOR OF THE CNRS NATIONAL INSTITUTE FOR EARTH SCIENCES AND ASTRONOMY (INSU)

In Stockholm last September, the Intergovernmental Panel on Climate Change (IPCC) disclosed the contents of its Fifth Report (AR5), which assesses the state of scientific knowledge on the Earth's climate system and the changes affecting it (Working Group I). Greater awareness of the interactions between the various components in the system, a more sophisticated observation strategy encompassing the natural and historical archives of the past, and sustained international effort in making climate models more accurate (the CMIP5 project), have helped climate science progress significantly since the previous report in 2007. This enhanced capacity has made it possible to confirm the basic trends discussed in the Fourth Report—and indeed anticipated since the 1990s. In this cooperative effort, the research conducted by CNRS and its key partners (Météo France, CEA, CNES, IRD, and a host of universities) provides a vital contribution and displays France's expertise in the field.

In parallel, the scientific community is increasingly called upon to describe and explain the regional and local impact of global climate change, in order to put forward a range of adaptive measures for decision-makers. This is the mission of the IPCC Working Group II, whose report will be released later this year. It represents a new key challenge for research, with a host of ancillary issues, such as the combination of spatial and temporal scales, the improvement of local and regional models, and the integration of a whole array of complex processes and interactions. The search for solutions involves many CNRS disciplines, from mathematics to the humanities and social sciences. Our organization is thus very well positioned to take up the challenges raised by the Fifth IPCC Report.

* Our colleague Jean-François Stéphan passed away on December 21, 2013.

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Inside the new nanoscience building at Institut Néel.



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