

Scientific Colloquium

Gathering scientific communities in the fields of Chemistry, Physics and Energy

**Chemistry and physics of carbon dioxide:
challenges and applications**

14th December 2009, Université Paris-Sud 11 (LPS, amphi Blandin)

- 9h00-9h15** **Introduction:** *Building a "Low Carbon" community on the campus*
Pr. Jean-Jacques Girerd (Université Paris-Sud 11)
- 9h15-10h15** **Key note lecture:** *Powering the Planet with Solar Fuel*
Pr. Harry B. Gray (Californian Institute of Technology, Pasadena, USA)
- 10h15-12h00** **Scientific potential that can be mobilized on the campus**
- 10h15-10h45 *Contribution from CEA Saclay*
Dr. Alfred W. Rutherford (CEA, i-BiTec)
- 10h45-11h00 Coffee break
- 11h00-11h30 *Contribution from University Paris-Sud 11*
Pr. Ally Aukauloo (Université Paris-Sud 11, ICMMO)
- 11h30-12h00 *Contribution from IRDEP*
Pr. Daniel Lincot (IRDEP, CNRS-Chimie ParisTech-EDF R&D)
- 12h00-14h00** **Lunch**
- 14h00-14h45** **Special guest:** *A Water Splitting Catalyst for a Solar to CO₂ Fuels Cycle*
Pr. Daniel G. Nocera (MIT, Cambridge, USA)
- 14h45-17h15** **From scientific challenges to industrial applications**
- 14h45-15h30 *Concerted electron-proton transfers*
Pr. Jean-Michel Saveant (Université Paris Diderot 7)
- 15h30-15h50 Coffee Break
- 15h50-17h15 Round Table with experts from industry and public organizations
Moderator: Pr. Pierre Millet (Université Paris-Sud 11, ICMMO)
- Introduction: French initiative ACRUS on carbon dioxide (Association for
Carbon dioxide Recycling and zero emission transport Units and Systems)*
Mr. Olivier Dambricourt (Rhodia) and Mr. Pascal Morand (CETH)
- 17h15-17h30** **Conclusion and perspectives on the campus**
Pr. Jean-Pierre Mahy, Université Paris-Sud 11, ICMMO