

# **Beyond CO2: Bio kerosene, engine emissions and technical constraints**

**25<sup>th</sup> April 2013**

**Brussels, Van Maerlant street n°2, Building VM, Room VM1**

**9:00 to 10:30**

## **Session I: Types of Emissions**

### **Topic 1: Particle Emissions and Contrails**

Speaker: Ulrike Burkhardt, DLR

### **Topic 2: NOx**

Speaker: Claire Holman, ENVIRON

### **Topic 3: Ultrafine particles**

Speaker: Martin Porsgaard, SAS

**11:00 to 12:30**

## **Session II: How does fuel effect emissions?**

### **Topic 4: Effects of alternative fuels**

Speaker: Joanna Bauldreay, Shell

### **Topic 5: Fuel properties**

Speaker: Mickael Sicard, ONERA

### **Topic 6: Blending issues**

Speaker: Alexander Zschocke, Lufthansa

**13:30 to 14:30**

## **Session III: Aircraft and Engines: Contributions to emission reductions and constraints on fuel properties**

### **Topic 7: Aircraft engines aspects: Chances and constraints**

Speaker: Chris Lewis, Rolls Royce

### **Topic 8. Airframes: Chances and constraints**

Speaker: Ross Walker, Airbus

**15:00 to 16:30**

**Panel session**