

## AIR POLLUTION RESEARCH IN LONDON



King's College London, G79  
Franklin-Wilkins Building,  
150 Stamford Street, London SE1.  
Nearest station Waterloo

**16<sup>TH</sup> MAY, 2006**

This conference presents the results of a multi-disciplinary research programme funded by EPSRC to investigate the dispersion of air pollution at a busy road junction in one of London's most polluted streets, the Marylebone Road, Westminster. The research includes meteorological and pollution measurements, tracer gas releases, wind tunnel modelling and computer-based modelling. It was successfully delivered by a multi-disciplinary team led by Professor Alan Robins of Surrey University, with colleagues from Cambridge, Bristol, Leeds, Reading and Imperial College London. An introduction to associated research projects in London and the launch of a new air pollution website based on the 3D model of London will conclude the conference.

### **10.00-10.30 Coffee and Registration**

- 10.30 **Welcome**  
Professor Helen ApSimon, Imperial College London
- 10.40 **Introduction and programme outline**  
Professor Alan Robins, University of Surrey (Chairman)
- 10.55 **Approach, methodology and site description**  
Dr. Sam Arnold, Imperial College London/Reading
- 11.20 **Air quality measurements, their spatial and temporal variability and their relation to data from Marylebone Road long-term monitoring sites**  
Dr. Alison Tomlin, Dr. James Tate, Professor Margaret Bell, University of Leeds
- 11.45 **Flow and turbulence measurements in the field and assessment of the dispersion capability of the urban infrastructure**  
Dr. Janet Barlow, University of Leeds  
Prof. Steven Belcher, University of Reading
- 12.10 **Vehicle movement field observations and micro-simulation to derive a higher resolution local emissions inventory**  
Professor Margaret Bell, Dr. James Tate, University of Leeds
- 12.35 **Assessment of human exposure and future requirements of operational modelling**  
Dr. Surbjit Kaur, Dr. Roy Colville, Imperial College London,  
Prof. Rex Britter, University of Cambridge

### **LUNCH – 13.00**

- 14.00 **Tracer dispersion measurements in the field and their use to identify and characterise exposure pathways**  
Dr. Dudley Shallcross, University of Bristol,  
Professor Rex Britter, University of Cambridge
- 14.25 **Flow turbulence and tracer dispersion measurements in the lab and their use to characterise dispersion characteristics and exposure pathways**  
Prof. Alan Robins, Dr. Hong Cheng, University of Surrey
- 14.50 **Pollutant mapping and CFD modelling to rank sources of spatial and temporal variability in air quality**  
Dr. Roy Colville, Dr. Elsa Aristodemou, Hongbin Wang, Imperial College London  
Professor Rex Britter, University of Cambridge
- 15.15 **Assessment of the representativeness of the DAPPLE case study periods**  
Dr. Roy Colville, Imperial College London, Prof. Alan Robins, University of Surrey,  
Dr. Janet Barlow, University of Reading

15.40 **Future requirements of operational modelling and practical tools for local authorities**

Discussion led by Prof. Rex Britter and Dr. Roy Colvile

**AFTERNOON TEA – 16.00**

**Associated Projects**

16.20 **DAPPLE- 2 and DAPPLE-Home Office**

Professor Alan Robins, Surrey University

16.40 **Pollution from Outdoor Sources in Indoor Environments (POSIE)**

Dr. Vina Kukadia (BRE)

Dr. Dudley Shallcross (Bristol University)

16.55 **Urban Meteorology**

Dr. Doug Middleton, Met Office

Prof. Sue Grimmond, KCL

17.10 **BT Tower**

Dr. Jennifer Salmond Birmingham, University of Birmingham

17.30 **VIRTUAL LONDON AND AIR POLLUTION WEBSITE LAUNCH**

**Understanding the impacts of air pollution on health and transport policy in the built environment :**

a new website that combines outputs from ADMS-urban and other pollution and demographic data with the 3D Model of London

Presented by

**Professor Mike Batty, UCL**

and

**Professor Frank Kelly, King's College London**

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18.30

**DRINKS**