

Institute for
Transport Studies



UNIVERSITY OF LEEDS

Monitoring Traffic Pollution

24-26 February 2009

Continuing
Professional
Development

IITS

Monitoring Traffic Pollution

24-26 February 2009

Course fee: £499

This course provides technical and practical knowledge of traffic, vehicle emissions, meteorology and air pollution monitoring techniques.

Using case studies and analysis, participants develop a clear understanding of the issues and interactions of traffic activity, emission generation, management policies and air pollution. UK government and EU policies are outlined, alongside the concept of air quality management. The course reviews current technologies and includes a practical in the use of instruments, their maintenance & calibration and data ratification. It also provides an introduction to 'R', free open-source software for effective data manipulation and analysis. By the end of the course participants will have a clear understanding of the interactions between traffic activity, management policies and air pollution.

Outline programme

DAY 1	Introduction to urban air quality issues and UK policy Monitoring traffic flow, speed, ANPR, journey times and fleet composition Monitoring vehicular emissions and instrumentation demonstration Gaseous pollution monitoring systems and site visit
DAY 2	Particles: theory and instrumentation Data ratification and practical Atmospheric chemistry and pollution dispersion AURN standards, directives and practical
DAY 3	Introduction to 'R' - for effective manipulation and analysis of environmental data Using 'R' for exploratory analysis Findings from research studies Case study: 'Role of Monitoring in AQMA' - City of York Council

The course benefits from access to the Instrumented City, a suite of state-of-the-art traffic and environmental research facilities - www.its.leeds.ac.uk/facilities/icity. For further information about the course content or its relevance to your work please contact the course leader - Dr James Tate, tel: +44 (0)113 343 6608, email: j.e.tate@its.leeds.ac.uk

Further information & how to book

The course will be held in ITS training facilities at the University of Leeds, Leeds LS2 9JT. The fee includes learning materials, lunch and refreshments during the course, but not overnight accommodation (details of local hotels are available on request).

Course bookings and other enquiries can be made via the Short Courses Co-ordinator using the contact details below:



T: +44 (0)113 343 5353

E: courses@its.leeds.ac.uk

W: www.its.leeds.ac.uk