Metrology of Airborne Nanoparticles, Standardisation and Applications (MANSA)
8-9 June 2010

Programme

Tuesday 8th June

10:00  Registration opens, NPL Reception
10:45  Welcome

Session 1 - Policy and drivers for airborne nanoparticles

11:00  Prof Robert Maynard (Health Protection Agency, UK)
       Metrics to reflect the toxicology of particulate air pollution: Should we move to number?

11:30  Prof Roy Harrison (University of Birmingham, UK)
       Airborne Nanoparticles: Risks and Challenges

12:00  Dr Rob Aitken (Institute of Occupational Medicine, UK) - Potential exposure to nanoparticles - who, what, how

12:30  Lunch & Posters, NPL Reception

13:30  Dr Georgios Katalagarianakis (European Commission, Research DG)
       Progress in standardisation is key to innovation in Nanotechnology

14:00  Prof Alfred Wiedensohler (University of Leipzig, Germany)
       Problems and solutions specific to ambient aerosol measurements

14:30  Chris Parkin (Department for Transport, UK)
       Development & Implementation of Particle Number Measurement for Vehicle Emissions Regulation

15:00  Coffee & Posters, NPL Reception

Session 2 - International metrology and standardisation

15:30  Dr Kensei Ehara (National Metrology Institute of Japan)
       A Rigorous Method of Evaluating the Performance of Differential Mobility Analysers

16:00  Dr Jürg Schlatter (METAS, Switzerland)
       Towards international harmonisation of nanoparticle size and number - EURAMET 1027

16:30  Dr Kai Dirscherl (Danish Fundamental Metrology, Denmark)
       Visualizing the inner structure of adsorbed combustion particles with an Atomic Force Microscope

17:00  Close of proceedings.
19:00  Conference Meal, The Wharf
Wednesday 9th June

09:00  Registration & Taxi List, NPL Reception

09:30  Dr Richard Gilham (National Physical Laboratory, UK)
       Recent progress and future prospects for traceable submicron aerosol measurements

10:00  Dr Hans-Georg Horn (TSI Instruments, Germany)
       New Standards and Guidelines Related to the Measurements of Ultrafine Particles in Ambient Air

10:30  Dr Jonathan Symonds (Cambustion, UK)
       Calibration of Fast Response Differential Mobility Spectrometers

11:00  Coffee & Posters, NPL Reception

Session 3- Applications, instrumentation and calibration

11:30  Dr Alison Buckley (Health Protection Agency, UK)
       A Quality Aerosol Production and Characterisation System for Nanotoxicology Studies

12:00  Dr Paul Quincey (National Physical Laboratory, UK)
       Practical issues bringing metrology to an automated nanoparticle monitoring network

12:30  Dr Mark Johnson (Rolls-Royce, UK)
       Aviation transportation - New certification particulate metric measurement methodology

13:00  Lunch & Posters, NPL Reception

13:30  Mike Braisher (University of Oxford)
       Design and Calibration of a High Flow Rate Differential Mobility Analyser for Engine Exhaust Analysis

14:00  Dieter Rothe (MAN Nutzfahrzeuge)
       Particle Counting in Engine Exhaust and Alternatives

14:30  Dr Prashant Kumar (University of Surrey)
       Urban nanoparticle measurements with the DMS500 and the potential role of such fast response instruments in regulatory activities

15:00  Close