

MAA2012: Air Quality Monitoring – Opening opportunities through new technologies and data analysis

AAMG's annual 2 day conference on Monitoring Ambient Air (MAA) was held at Burlington House on Dec 12th/13th and attracted a total attendance of 83.



Speakers from Belgium, France, Germany, The Netherlands, Slovenia, Switzerland and the UK presented a total of 17 papers addressing developments in new technologies and data analysis as applied to air quality monitoring. In addition, the conference provided an update on the European-funded AirMonTech project which aims to harmonise current air pollution monitoring techniques and to advise on future monitoring technologies and strategy. Concurrent with the conference was a small table-top exhibition.

A report of the meeting will be published on this website in the near future.

Programme Details:

Air Quality Monitoring – Opening opportunities through new technologies and data analysis

Session 1: An Overview and Discussion on New Technologies and Methods

Air Quality Monitoring Technologies – An Update from the AirMonTech Project Covering their Current State and Emerging Themes. Christophe Hueglin, EMPA, Switzerland and Ernie Weijers, ECN, Netherlands

Some Proposed Recommendations for Regulatory Urban Air Quality Monitoring Looking Ahead to 2020. Paul Quincey, NPL, Middlesex, UK

The Key Air Quality Metrics and Technologies, and Specific Research Needs in Relation to Future Air Quality Monitoring. Thomas Kuhlbusch, IUTA e.V. Germany

Session 2: Non-regulatory networks and data analysis

UK Eutrophying and Acidifying Atmospheric Pollutants Monitoring (UKEAP): Results and Future outlook. Y S Tang, CEH, Edinburgh, UK

Chemical Climatology: A Brief History and Application to the UKEMEP Supersites. Christopher Malley, CEH, Edinburgh, UK

Novel Approaches for Extracting Added Value from Large Data Sets of Ambient Pollutant Concentrations. Richard Brown, NPL, Middlesex, UK

Recent Data Analysis Developments in the Openair Software Package. David Carslaw, King's College London, London, UK



The Application of Artificial Neural Networks for Discrete Wavelength Retrievals of Atmospheric Nitrogen Dioxide from Space. James Lawrence, University of Leicester, Leicester, UK

Biomass Combustion : Tools and Research Needs to Calibrate and Assess Actions Aimed to Improve Air Quality. Joelle Colosio, ADEME, Paris, France

Session 3: PM in the UK

Launch of Defra's Air Quality Expert Group Report on PM2.5 in the UK. Paul Monks, University of Leicester, Leicester, UK

Source Apportionment of Airborne Particulate Matter: Estimation Of the Road Traffic Exhaust and Non-Exhaust Contributions to Particle Number and Mass. Roy Harrison, University of Birmingham, Birmingham, UK

New Highly Resolved Chemical Speciation Measurements of PM in London. David Green, King's College London, London, UK

Measuring ppb Gas Concentrations in Air Quality Networks Using Low Cost Sensors. John Saffell, Alphasense, Essex, UK

Hemispherical Scanning Imaging DOAS: Resolving Nitrogen Dioxide in the Urban Environment. Roland Leigh, University of Leicester, Leicester, UK 13:00 Lunch -

Session 5: Soot Measurement

Soot Measurements in Amsterdam: Black Smoke and Black Carbon vs Elemental Carbon. Pavlos Panteliadis, GGD, Amsterdam, Netherlands

Dual-spot Aethalometer: Online Characterization of Aerosol "loading" Effect Parameter K. Luka Drinovec, Aerosol d.o.o., Ljubljana, Slovenia

The Use of a Mobile Platform to Assess the Spatial and Temporal Variability of Urban UFP and BC Concentrations. Joris Van den Bossche, VITO, Mol, Belgium