

**Towards the 2013 Revision
of the Ambient Air Quality Directive
- Issues and Solutions**

**Conference with
Posters and Exhibition**

**Organised by the
Automation and Analytical Management Group -
Royal Society of Chemistry**

Monday 12th and Tuesday 13th December 2011

**At The Royal Society of Chemistry,
Burlington House, Piccadilly,
London W1J 0BA**

**Email: conference@aamg-rsc.org
Website: <http://www.aamg-rsc.org>**

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Introduction

It is now ten years since the air quality daughter directives were introduced and six years since the launch of the EU Thematic Strategy on air pollution. However, many air pollution challenges remain within Europe. Across Europe pollution concentrations are not falling as fast as expected and member states are therefore experiencing difficulties with attainment of Limit and Target Values for NO₂, O₃ and PM₁₀. It is clear that large gaps remain in our understanding of emission sources and their linkage to ambient concentrations. Meanwhile evidence of the health burden of air pollution continues to grow and increased emphasis on the reduction of green house gas emissions provides opportunities for co-benefits between climate change mitigation measures and air pollution abatement.

This conference will address some of the scientific questions as we prepare for the review of the Ambient Air Quality Directive in 2013. The conference will be introduced by internationally recognised experts to set the scene at the national and European level. It will bring together leading scientists and policy makers, and will provide a broad and up-to-date survey of the measurement, regulatory and scientific issues, including policy implications, health effects and future perspectives. The conference will also provide an update on the European funded AirMonTech project to harmonize current air pollution monitoring techniques and to advise on future monitoring technologies and strategy.

Monday 12th December

10:00 Registration

Session 1: Some European Perspectives

Chairperson: **Peter Woods** - National Physical Laboratory, UK

10:30 Air Quality Across Europe, Progress Towards Limit Value Attainment and Outstanding Issues
Daniela Buzica-Widlowski, DG Environment, Brussels

11:00 Meeting the EU Limit Values in the UK
Tim Williamson / Helen Ainsworth, DEFRA, UK

11:30 Trends in NO₂ and PM₁₀ Concentration in the Netherlands
Ronald Hoogerbrugge, RIVM, Netherlands

- 12:00 The Past Present and Future of Metals and PAH Monitoring in the UK
Richard Brown, *National Physical Laboratory, UK*
- 12:30 Towards an Improved Harmonization of Regional Scale Air Quality Monitoring in Europe - The Role of EMEP in Providing Information To Support Future EU Directives
Kjetil Tørseth, *Norwegian Institute for Air Research, Norway*
- 13:00 Lunch - Exhibition & Posters

Session 2: The Carbon Content of Particulate Matter

Chairperson: **Theo Hafkenscheid** - RIVM, Netherlands

- 14:00 Intercomparisons of Carbonaceous Aerosol Source Apportionment Models at Various Urban Sites
Olivier Favez, *INERIS, France*
- 14:30 Reduction of Black Carbon and CO₂ in Urban Environments
Jim Mills, *Air Monitors Ltd, UK*
- 15:00 Carbonaceous Aerosol Measurements at an Urban Area in the PO Valley - Italy
Mihaela Mircea, *ENEA, Italy*
- 15:30 Tea / Coffee - Exhibition & Posters
- 16:00 Optical Detection and Discrimination Between Biomass and Fossil Fuel Combustion: Influence on Air Quality in Different Environments
Grisa Močnik, *Aerosol d.o.o., Slovenia*
- 16:30 Air Quality Monitoring of Black Elemental and Organic Carbon in Flanders
Christine Matheussen, *Flemish Environment Agency, Belgium*
- 17:00 Intercomparison of Thermal-Optical Protocols Currently Used in France and Europe for the Assessment of Ambient Air Organic and Elemental Carbon Within PM
Laura Chiappini, *INERIS, France*
- 17:30 End of Day One

Tuesday 13th December

09:30 Tea /Coffee - Exhibition and Posters

Session 3: Current and Future Air Pollution Monitoring - AirMonTech Project Update

Chairperson: **Thomas Kuhlbusch** - IUTA e.V, Germany

- 10:00 The European Commission's Expectations from the AirMonTech Project
Michel Schoupe / Annette Borowiak, EU Commission, Brussels
- 10:30 The AirMonTech Database
Annette Borowiak, JRC, EC, Italy
- 11:00 Existing Technologies for Regulated Metrics
Christophe Hueglin / Robert Gehrig, EMPA, Switzerland
- 11:30 New Monitoring Technologies, New Metrics and Proxies
Ulrich Quass, IUTA e.V, Germany

Session 4: NO₂, Sensors and Climate Change

Chairperson: **Gary Fuller** - King's College London, UK

- 12:00 Baseline and Low Emission Zone Scenario Modelling to Support the Development of UK Air Quality Plans for NO₂ Compliance
John Stedman, AEAT, UK
- 12:30 Lunch - Exhibition & Posters
- 13:30 Recent Evidence and Future Prospects Relating to NO_x and NO₂ From Road Vehicles
David Carslaw, King's College London, UK
- 14:00 Nitrogen Dioxide Measurement Ambient Concentrations and Future Control Measures
Samuel Rouse, Brighton & Hove City Council, UK
- 14:30 Low-Cost Sensor Networks for Measuring Urban Air Quality
Rod Jones, Cambridge University, UK
- 15:00 Key Findings from the UNEP Report on Integrated Assessment of Black Carbon and Tropospheric Ozone
Elisabetta Vignati, JRC, EC Italy
- 15:30 From Air Quality to Climate Change - A Switcher's Perspective
Richard Gilham, Met Office Hadley Centre, UK
- 16:00 **End of Conference**

How To Register

Early registration is requested due to limited number of delegate places and catering requirements. Please complete and return the registration form as soon as possible.

Registration Fees:	Non Members	£290
	Members	£210
	Students/Retired	£ 95

The registration fee includes attendance at the meeting together with coffee, lunch and afternoon tea/coffee.

Payment of registration fees:

- By Cheque made payable to: **AAMG-RSC**
- By Credit Card (note that AMEX and DINERS cards are not accepted)

Venue

The Royal Society of Chemistry
Burlington House,
Piccadilly
London W1J 0BA

Maps and details will provided upon registration

Registration Contact

Conference Secretary, AAMG-RSC, PO Box 174, Manchester M24 4XZ, UK
Email: conference@aamg-rsc.org Fax: +44 (0) 161 610 3939

AAMG Treasurer

Dr R Narayanaswamy, Address as above
Tel +44 (0) 7974 515265 Fax: +44 (0) 161 610 3939

Notes

- 1) Fees are not normally refundable but are transferable. If for any reason the organisers should cancel the conference then fees will be refunded.
- 2) The registration fee includes attendance at the meeting together with coffee, lunch and afternoon tea/coffee, as appropriate.
- 3) The organisers reserve the right to alter the programme.

Data Protection Act. The information on this form will be retained (1) for the purpose of administering this meeting, in particular for producing a list of participants for distribution at the meeting, and (2) in order that information on future meetings can be sent to you. Please write to the meeting contact if you object.

Registration Form

Please complete this form after referring to the registration information and return by post or fax to:

AAMG-RSC, PO Box 174, Manchester. M24 4XZ, UK
Fax No: +44 (0) 161 610 3939

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Delegate Name & Title

Position

Organization

Address

Post Code

Telephone No:

Fax No:

Email

Special Requirements

Signature

Registration Fees:	Non-Member	£290
	Member	£210
	Student/Retired	£ 95

Payment:

(Please tick payment method)

By Cheque Please make cheque payable to: **AAMG-RSC**

Credit/Debit Card Please complete details below

Credit Card Details (Please note that AMEX or DINERS cards cannot be accepted)

Card Type: Visa Mastercard Maestro

Card Number:

Valid from Expiry Date

Card Issue No: (Maestro only)

Card Security Code (last 3 digits on reverse of credit card):

Cardholder Name

Statement Address

Post Code

Contact Tel No (not mobile)

Signature of Cardholder

Date