

## **Air Quality – The Major Challenges**

Conference with Exhibition and Posters

### **Conference Programme**

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

**Wednesday 9th and Thursday 10th December 2009**

at the Royal Society of Chemistry Lecture Theatre  
Burlington House, Piccadilly, London W1J 0BN

Email: [conference@aamg-rsc.org](mailto:conference@aamg-rsc.org)

Web site: [www.aamg-rsc.org](http://www.aamg-rsc.org)

# Air quality – the major challenges

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### Introduction

As the EU legislation covering air quality starts to bite, many problems with compliance are emerging. The compliance issues are most acute for particulate matter (PM), nitrogen dioxide and ozone, leading to breaches of Directive requirements in many member states across the EU. In addition to these regulatory issues, air quality issues are gaining a high profile in several specific cases such as airports, shipping and local industry. The conference will focus on these major current challenges and how technology and regulation should be adapting to address the challenges of the future.

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 regulatory and scientific issues, including health effects and future perspectives.

### Wednesday 9th December

10:00 Registration, tea and coffee.

**Session 1** Chairman, Peter Woods, National Physical Laboratory, Teddington, UK.

#### The challenges

10:30 Air quality across Europe, progress towards Limit Value attainment and outstanding issues.

*Andrej Kobe, DG Environment, European Commission, Belgium.*

11:00 Meeting the EU Limit Values in the UK.

*Martin Williams, Defra, UK.*

11:30 Impacts of air pollution on health.

*Ross Anderson, St Georges University of London and King's College London, UK.*

#### Measured trends and policy implications

12:00 A comparison of NO<sub>x</sub> and PM<sub>10</sub> measurement and emission trends.

*Sean Beevers, King's College London, UK.*

12:30 Government decision making and air quality: did the government “use sound science responsibly”?

*Rob Gibson, London Borough of Hounslow, UK.*

13:00 Lunch and exhibition.

**Session 2** Chairman, Gary Fuller, Kings College London.

#### PM measurement and QA/QC

14:00 PM<sub>10</sub> and PM<sub>2.5</sub>: a measurement overview.

*Paul Quincey, National Physical Laboratory, Teddington, UK.*

14:30 A European quality assurance programme for fine particles.

*Fritz Lagler, Joint Research Centre, Institute for Environment and Sustainability, Ispra, Italy.*

15:00 Quality assurance for particle measurements.

*Ulrich Pfeffer, State Office for Nature, Environment and Consumer Protection, North Rhine Westphalia, Germany.*

- 15:30 Tea and exhibition.
- 16:00 Monitoring compliance with the EU PM<sub>2.5</sub> average exposure indicator in the UK.  
*Brian Stacey, AEA, UK.*
- 16:30 Implications for the assessment of EU Limit Values when changing from TEOM to reference equivalent PM<sub>10</sub> measurements.  
*David Green, King's College London, UK.*
- 17:00 Harmonisation of ultrafine particle measurements.  
*Richard Gilham, National Physical Laboratory, Teddington, UK.*
- 17:30 Session close.

### **Thursday 10th December**

- 09:30 Arrival, tea, coffee and exhibition.

**Session 3** Chairman, Theo Hafkenscheid, RIVM, Bilthoven, Netherlands.

#### **Pollution sources and effects**

- 10:00 Quantifying the emissions of stationary industrial sources using PM<sub>10</sub> monitoring data.  
*Dieter Gladtko, State Office for Nature, Environment and Consumer Protection, North Rhine Westphalia, Germany.*
- 10:30 PM<sub>2.5</sub> measurements close to an integrated steel production site.  
*Bastian Bach, ThyssenKrupp Steel AG, Germany.*
- 11:00 Tea and exhibition.
- 11:30 PM toxicity from waste transfer station activity.  
*Krystal Godri, King's College London, UK.*
- 12:00 Contribution of biomass burning to London's PM<sub>10</sub>.  
*Gary Fuller, King's College London, UK.*
- 12:30 A comparison of remote measurements of ship emissions.  
*Annette Borowiak, Joint Research Centre, Institute for Environment and Sustainability, Italy.*
- 13:00 Lunch and exhibition.

**Session 4** Chairman, Ulrich Pfeffer, State Office for Nature, Environment and Consumer Protection, (NRW), Germany.

#### **VOC industrial control and new measurement technologies**

- 14:00 Ambient air monitoring and emissions abatement in industry.  
*Eric Wauters, VMM, Belgium.*
- 14:30 On-line, cryogen-free monitoring of trace-level ultra-volatile fluorinated compounds with high global warming potential.  
*Nicola Watson, Markes International, UK.*
- 15:00 SIFT-MS: a new direction in on-line quantitative VOC monitoring.  
*Gregory Francis, Syft Technologies (UK) Ltd, UK.*
- 15:30 Tea.
- 16:00 Close of conference.

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## **POSTERS**

**Poster presentations on the theme of the conference are invited**

Please contact: [conference@aamg-rsc.org](mailto:conference@aamg-rsc.org)

# 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**

## Air Quality - the major challenges

Wednesday 9th and Thursday 10th December 2009  
at the RSC, Burlington House, London

Delegate's Name & Title .....

Position .....

Organisation .....

Address .....

..... Post Code .....

Telephone No ..... Fax No .....

Email .....

Special Requirements .....

Signature .....

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| <b>Registration Fees</b> | Non Members              | £285 | <input type="checkbox"/> |
|                          | RSC Members              | £200 | <input type="checkbox"/> |
|                          | Student / Retired Person | £95  | <input type="checkbox"/> |

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# How to Register

Early registration is requested due to space and catering requirements.  
Please complete and return the registration form as soon as possible.

|                           |                                |      |
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| <b>Registration Fees:</b> | <b>Non Members</b>             | £285 |
|                           | <b>RSC Members</b>             | £200 |
|                           | <b>Students/Retired Person</b> | £95  |

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

Note that the AAMG-RSC is not registered for VAT.

## Payment of registration fees:

- Credit Card, preferred payment method (AMEX or DINERS cannot be accepted)
- Bank Transfer (BACS)
- Cheque or Money Order made payable to: AAMG-RSC

## Venue

Royal Society of Chemistry Lecture Theatre, Burlington House,  
Piccadilly, London W1J 0BQ

Maps and details will be provided upon registration.

## Registration Contact

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

## AAMG Treasurer (contact for banking information)

Dr R Narayanaswamy, AAMG-RSC, P O Box 174, Manchester. M24 4XZ, UK  
Tel +44 (0) 161 306 4891 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 (see above) if you object.

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