

New Materials and Developments in Sensor Technologies

Conference with Posters and Exhibition

Programme

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

**A one day meeting on
Wednesday 18th June 2014**

**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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Management Group of the Royal Society of Chemistry

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Introduction

This is the sixth annual AAMG Conference concerning monitoring and analysis using sensor technologies. This conference will cover new materials and developments on sensor technologies with applications related to air and water quality; and biological monitoring. The conference follows a similar format as in preceding years with presentations by invited speakers; however, the majority of papers and posters will be presented by young researchers.

The conference will examine the design and application of new materials and development of potential commercial sensors for monitoring (bio)medical, industrial and environmental processes. Sessions will feature invited presentations and submissions selected from the response to the call for papers.

Scientific Committee

Program: Dr R.Narayanaswamy, Dr Alan Braithwaite and Prof Krishna Persaud

Advisors: Dr Craig Roxburgh, Dr Mark Baron and Dr Chris Walton

Programme

09:00 – 09:30 Registration and coffee

Session 1 New Materials and Developments

Chair: **To be Confirmed**

09:30 Developing Optical Fibre Sensors for Industrial Applications

Ken Grattan

City University London, UK

10:00 Graphene Based Sensors

Aravind Viyaraghavan

The University of Manchester, UK

10:30 Recent Advances in Diamond Materials for Chemical Sensing
Applications

Emmanuel Scorsone

Institut CEA LIST, France

11:00 - 11:30 Tea / Coffee

11:30 Low Operating Temperature Metal Oxide Sensors for Carbon Dioxide

Natasha McGuire

Sense44, Bristol, UK

11:50 A Nanoparticle Based Sensor For E. Coli Bacteria

Hadi AlQahtani

King Saud University, Saudi Arabia

12:10 Innovative Device With Conducting Polymer Sensors To Detect Early Or Hidden Fungal Development In Indoor Environments Through Volatile Organic Compounds (VOCs)
Rukshala Anton
C S T B, France

12:30 Polymeric/Gold Plasmonic Crystal For SERS Detection Of Leukemia Biomarkers
Carlo F. Morasso,
Fondazione Don Carlo Gnocchi, Italy

12:50 - 14:00 Lunch - Exhibition & Poster Session

Session 2 Sensing and Analytical Monitoring Techniques

Chair: **To be Confirmed**

14:00 Detection of Security Threats Using Solid State Gas Sensors
Gerhard Müller
Technical University of Munich, Germany

14:30 Developing Particle Analysis Towards A New Point-Of-Care Assay Platform
Emily Rose Billinge
Loughborough University, UK

14:50 A Novel Non-Invasive And Real-Time Electromagnetic Wave Sensor For The Meat Industry
Muhammad Ateeq
Liverpool John Moores University, UK

15:10 Design of Fast Chip Calorimetry Accessory for In-situ X-ray Nanobeam Experiments
Yaroslav I. Odarchenko
Institut de Science des Matériaux de Mulhouse, France

15:30 - 16:00 Tea / Coffee

16:00 Application Of Microwave Spectroscopy Analysis On Determining The Quality Of Vegetable Oils
Salifu Osman
Liverpool John Moores University, UK

16:20 Analysis Of Volatile Compounds (VCs) In Complex Samples Using Static Headspace Multi-Capillary Column Gas Chromatography Ion Mobility Spectrometry
Chamila J. Denawaka
Northumbria University, UK

16:40 **Exhibitors Presentations**

17:00 **Concluding Remarks and End of Conference**

Poster Abstract Submission

Abstracts for poster sessions only will be accepted until **23rd May 2014**. Since space is limited, you are advised to submit abstracts as soon as possible. Abstracts submitted later than the above deadline may not be included in the conference booklet. Abstracts will be considered for the conference only if they are accompanied by your registration form.

The abstract should be one page (A4) according to the format published on the AAMG website at <http://www.aamg-rsc.org>. Contributions should be forwarded by email to conference@aamg-rsc.org

Exhibition

A limited number of Exhibition places are available. Interested persons are requested to contact the conference secretary at conference@aamg-rsc.org as soon as possible.

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	£150
	Members	£100
	Students/Retired	£ 75

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

Payment of registration fees:

Delegates are advised that for security purposes credit card details should not be sent electronically such as by email; a fax would be preferable.

- 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, fax or email to:

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

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

Delegate Name & Title

Position

Organization

Address

Post Code

Telephone No:

Fax No:

Email

Special Requirements

Signature

Registration Fees:	Non-Member	£150
	Member RSC	£100
	Student/Retired	£ 75

Delegates are advised that for security purposes credit card details should not be sent electronically such as by email, but a Fax would be preferable.

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