



Chemical and Biochemical Sensors, Moving from Measurement to Control

A one day meeting

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

Wednesday 20th May 2009

**Royal Astronomical Society,
Burlington House,
Piccadilly,
London, W1J 0BQ**

Email: conference@aamg-rsc.org

Web site: www.aamg-rsc.org

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Introduction

Sensors and related technologies are an expanding market with developments occurring at a rapid rate. Sensors are one of the key elements for automation in manufacturing and process technology. Manufacturing industry is introducing a number of new products and services that incorporate sensing technology and sensors are now becoming a key component in the industrial and process control sectors. Current developments and applications are driven by developments in semiconductor technology, smart and 'intelligent' sensors and demands by the industrial users of sensors for cost-effective and yet complex measuring and monitoring products.

The continued proliferation of advanced electronic control systems has provided users with a number of advantages such as sensor accuracy, reliability, response time, robustness, miniaturization, communications capability and increased production efficiencies. Sensors incorporating nanotechnologies are now under development. This drives forward research and development in sensor technology, providing opportunities for the advancement of these technologies and new applications for sensors.

Important physical and technological progress in the development of new and advanced sensor families will be described in this workshop style meeting. Sensor development is strongly directed to the miniaturization of devices, integration of different sensors and multi-sensors, as well as integration between sensors and microelectronics. The meeting will discuss new directions in sensor technology and applications in the real world.

Programme

Session 1 New Directions in Sensor Technology

Chairman: Alan Braithwaite, AAMG - RSC

- 10.00 Registration and coffee
- 10.30 Chemical/bio sensors
Chris Lowe, Institute of Biotechnology, University of Cambridge, Cambridge.
- 11.00 Sensor fusion technologies
Krishna Persaud, School of Chemical Engineering and Analytical Science, University of Manchester, Manchester.
- 11.30 Nanotechnologies
Duncan Graham, Centre for Molecular and Nanometrology, Strathclyde University, Glasgow.
- 12.00 Security
John Findlay, Institute of Membrane & Systems Biology, University of Leeds, Leeds.
- 12.30 Lunch

Session 2 Real World Systems and Applications

Chairman: Ramaier Narayanaswamy, University of Manchester

- 13.30 The personal environment, climate control for a healthy environment
Nicolae Barsan, Institute of Physical Chemistry, University of Tuebingen, Germany
- 14.00 Feedback and control in the water industries
Chris Rockey, South West Water, Exeter, Devon
- 14.30 Heathcare@Home
Omar Rana, Welsh e-Science Centre, Cardiff University, Cardiff
- 15.00 Tea
- 15.30 Point of care monitoring
Gary Thorpe, Queens Medical Centre, University of Birmingham, Edgbaston, Birmingham
- 16.00 Multiple Array sensors in the food industry
Brian Birch, LIRANS, University of Bedfordshire, Luton
- 16.30 End of conference

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's Name & Title

Position

Organisation

Address

..... Post Code

Telephone No Fax No

Email

Special Requirements

Signature

Registration Fees	Non Members	£140	<input type="checkbox"/>
	Members, RSC	£100	<input type="checkbox"/>
	Student / Retired Person	£65	<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.

Registration Fees:	Non Members	£140
	Members, RSC	£100
	Students/Retired Person	£65

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

Payment of registration fees:

- By Cheque or Money Order made payable to: AAMG-RSC
- By Credit Card (AMEX or DINERS cards are not accepted)
- By Bank Transfer (BACS)

Venue

The Royal Astronomical Society, Burlington House, Piccadilly, London W1J 0BQ

Registration Contact

Conference Secretary, AAMG-RSC, P O Box 174, Manchester. M24 4XZ, UK
Email: 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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