

Sensor Systems for Environmental Monitoring



Sensor Systems for Environmental Monitoring

Conference with Posters

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

Thursday, 14th October 2010

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

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

Sensor Systems For Environmental Monitoring

A one day meeting organised by the Automation and Analytical
Management Group of the Royal Society of Chemistry

Thursday 14th October 2010

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

Introduction

Since the successful conference, 'Chemical Sensors and Biochemical Sensors – Measurement to Control' held by the AAMG in May 2009, this conference addresses the state of art and recent developments in sensor technologies, with a focus on environmental monitoring. Also opportunities have been provided in this conference for Postgraduate PhD students and young postdoctoral researchers to give oral and poster presentations related to the theme of the conference. The interest and use of sensing techniques in environmental monitoring has grown rapidly in recent years enhanced by the potential for automation and remote at site measurements with low cost methodologies and miniature instrumentation. This Conference offers a good opportunity to bring together scientists involved in this field to exchange experiences and thoughts about the new applications and novel sensors.

Scientific Committee

Dr R.Narayanaswamy, Professor Krishna Persaud, Dr Chris Walton, Dr P.Quincey,
Dr A Braithwaite, Dr Craig Roxburgh and Dr Mark Baron.

Programme

09.45 – 10.15 Registration and coffee

Session 1 Monitoring Aquatic Environments

Chairman: **Dr R Narayanaswamy**, University of Manchester, UK

- 10.15 Emerging tools for monitoring the chemical quality of water in support of the European Union's Water Framework Directive
Graham Mills, *University of Portsmouth, UK*
- 10.40 In-pipe water quality sensing in water transmission and distribution system: Experimental Evaluation
Angeliki Aisopou, *Imperial College, UK*
- 11.00 DEPLOY - Smart Catchment Demonstration: Long-term deployment of sensor monitoring system
Antóin Lawlor, *Dublin City University, Ireland*
- 11.20 Project Watersense, An integral decision support system (DSS) for water management
Martha Buitenkamp, *Anantis, The Netherlands*

- 11.40 Measurement of metal ions in aqueous environments
Daniel Harvey, *Aston University, UK*
- 12.00 Classification & Authentication of water sample using e-tongue supported by partial least squares method
Madhusree Kundu *National Institute of Technology, India*

12.20 Lunch & Poster Session

Session 2 Monitoring Atmospheric & Other Environments

Chairman: **Dr A Braithwaite**, AAMG-RSC, UK

- 13.45 A range of sensors for environmental monitoring
Pat Pollard, *Robert Gordon University, Aberdeen, UK*
- 14.10 Trace vapour sensors using insect olfaction
Mathilde Briens, *BBSRC, UK*
- 14.35 Low-cost sensor units for measuring urban air quality
Olalekan Popoola, *University of Cambridge, UK*
- 14.55 Evaluation of coated quartz crystal microbalance (QCM) sensors for the detection of atmospheric ozone
Simon Stanley, *Nottingham Trent University, UK*

15.15 Tea

- 15.45 Palladium coated polymer optical fibre hydrogen sensor for humid environments
Mohammed Akmez Nabeerasool, *University of Manchester, UK*
- 16.05 Chemical sensors suitability criteria for ubiquitous wireless sensor networks
Marco Brini, *Minteos s.r.l., Italy*
- 16.25 A modular sensor array for online monitoring of radioactive waste
Paolo Finocchiaro, *INFN Laboratori Nazionali del Sud, Italy*

16.45 Concluding Remarks and 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	£150
	Members	£120
	Students/Retired	£ 85

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 be 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) 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 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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Thursday, 14th October 2010
Royal Society of Chemistry, Burlington House, Piccadilly, London

Delegate Name & Title

Position

Organization

Address

Post Code

Telephone No:

Fax No:

Email

Special Requirements

Signature

Registration Fees:	Non-Member	£150
	Member	£110
	Student/Retired	£ 75

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)

Cardholder Name

Statement Address

Post Code

Contact Tel No (not mobile)

Signature of Cardholder

Date