

Nanotechnology; Opportunities for monitoring

3rd February '05
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The possibilities of nanotechnology dominate the technical press and its huge potential for monitoring and sensing in a wide range of disciplines is attracting significant investment from governments and business worldwide. In June 2003 the UK Government commissioned the Royal Society and the Royal Academy of Engineering to carry out an independent study of the likely impacts of nanotechnologies. The Report, published in July 2004 listed the opportunities and uncertainties.

This Workshop will outline the potential and opportunities for the use of nanotechnologies in meeting the monitoring challenges faced by the Water and Waste Treatment industry.

Chairman: **Dr Sam Tothill, Cranfield University**

09:30 am Registration and coffee

10:00 am An introduction to nanotechnology
Prof Roger Whatmore, Cranfield University

10:30 am Potential contributions to monitoring
Prof Peter Fielden & Dr Nick Goddard, University of Manchester

11:00 am Coffee

11:20 am Micro-arrays for DNA analysis – potential uses in water testing
Dr Fiona Brew, Affimetrix

11:50 am Nano and micro-structured systems for Ion sensing
Dr Damien Arrigan, NMRC, University College, Cork

12:20 pm Novel micro and nano-structured sensors for water analysis: a current and future view
Dr Tim Gibson, University of Leeds & Dr Karen Law, Cranfield University

12:50 pm Discussion & Lunch

13:45 pm Nanotechnology potential for monitoring
Tim Cox, QinetiQ

14:15 pm Integrated biochip system for water analysis
Dr Ramadan Abuknesha, Kings College, London

14:45 pm Advances in receptor technology
Dr Sam Tothill, Cranfield University

15:15 pm Discussions & Chairman's conclusions

The cost of attending the Workshop is £60 inc VAT for members and £95 inc VAT for non-members.

Cheques should be made payable to SWIG and sent to: SWIG, 27 West Green, Barrington, Cambridge, CB2 5RZ Tel/Fax 01223870967

email michaeljscott@compuserve.com

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