



Application of Biosensors in the Water Industry

18 September 2008

Institute of Bio-Sensing Technology, University of the West of England, Coldharbour Lane, Bristol, BS16 1QY Tel. 0117 3282472

Directions: <http://www.biosensingtech.co.uk/About/where.html>

Biosensors are devices that combine the specificity of a biological interaction with a sensor technology to give a rapid measurement of an analyte. For example the glucose biosensor is widely used by diabetics to measure their blood glucose and utilises the interaction of glucose with an enzyme such as glucose oxidase. The translation of biosensor technology into the water industry has been slow but with the development of new technology a number of applications are starting to be commercialised. This workshop will review some of the advances in technology that facilitate the use of biosensors in the water industry. Talks will include the use of nano-materials, neural networks and protein stabilisation technology. In addition, there will be examples of how particular measurements are made using biosensor technology, including pesticides, ammonia, endotoxins and micro-organisms.

Chairman: [Richard Luxton, University of the West of England \(UWE\)](#)

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| 09.45 | Coffee & registration |
| 10.15 | Introduction & technology overview
Richard Luxton, IBST, UWE |
| 10.45 | Stabilisation of proteins for biosensor applications
Guido Drago, Applied Enzyme Technologies |
| 11.15 | Coffee |
| 11.45 | A semi-automated and generalised analysis platform; detection of organophosphates.
Daniel Lonsdale, Uniscan Instruments |
| 12.15 | The use of nano material for biosensing applications
Sam Tothill, Cranfield University |
| 12.45 | Discussion & Lunch |
| 13.30 | The Measurement of endotoxins: Practice and pitfalls
Simon Jackson, UWE |
| 14.00 | Measurement of ammonia
Robin Pittson, Gwent Electronic materials |
| 14.30 | Biosensor to Counter Bioterrorism Threat
Mick Dawson, BHR Group |
| 15.00 | Discussion & close |

REGISTRATION

The cost of attending the Workshop is £70.00 inc VAT for members of SWIG and £130 inc VAT for non-members. Literature may be distributed for a fee of £50 and a limited number of table top displays are available at £100 each. Registrations can be made by Tel./Fax to 015242 71461 or by email to info@swig.org.uk using the on-line booking form.

Cancellation policy: Refunds can only be made if cancellations are notified at least 5 days in advance of the Workshop date.