

Sensors & control of biological processes

23rd March 2006 – the National Memorial Arboretum, Croxall Road, Alrewas, Staffordshire, DE13 7AR www.memoriantreesuk.org.uk Tel. 01283 792333

Biological processes are vital to potable and waste water treatment and yet we still have little in-depth knowledge of the complex interactions that occur and what affects the well-being of the consortia involved. The use of relevant sensor technologies may help in providing new knowledge and in the monitoring of plant. This workshop will highlight some of the approached now being applied to the study of biological systems that may be relevant to the water industry.

Chair: David Cowell, University of the West of England

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| 09.15 | Coffee & registration |
| 10.00 | Introduction
David Cowell, UWE |
| 10.15 | The value of biological process control in the wastewater industry.
Ken Black, Optimisation Manager, Northumbrian Water Ltd. |
| 10.45 | What can we learn from the health/agri-food industries as regards water quality?
Norman Ratcliffe, Deputy Director, Centre for Research in Analytical, Materials & Sensor Sciences, UWE |
| 11.15 | Coffee |
| 11.30 | Microbial biosensors and optimisation of water treatment
Ken Kilham, Aberdeen University |
| 12.00 | The intelligent pipe
Richard Dowdeswell or Hassan Amrani, Kaiku |
| 12.30 | Discussion & Lunch |
| 13.30 | Potential applications of e-nose technology
Jose Campins or Sam Tothill, Cranfield University |
| 14.00 | Non-invasive monitoring for early warning nitrification failure.
Steve Callister, Water Innovate Ltd. |
| 14.30 | Will an improved knowledge of biological processes improve wastewater treatment efficiency
Russell Davenport, University of Newcastle |
| 15.00 | Discussion & close |

The cost of attending the Workshop is £65 inc VAT for members and £115 inc VAT for non-members. Cheques should be made payable to SWIG and sent to: SWIG, St. Michael's House, Whittington, Carnforth. LA6 2NX Tel./Fax. 015242 71461 Email: info@swig.org.uk Literature may be distributed for a fee of £50 and a limited number of table top displays are available at £100 each

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