

Endocrine disrupting chemicals

15 November 2007 – Mitchell Hall

Cranfield University, Cranfield, Bedfordshire MK43 0AL

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Endocrine Disrupting Chemicals (EDCs) are known to cause changes in the endocrine system of organisms leading to abnormalities in the reproductive organs as well as increase in cancers. Natural and synthetic chemicals released in discrete and diffuse discharges to rivers and the existence of hormone mimicking compounds in sewage and industrial effluents has been highlighted in the literature as the cause of some of these problems. The UK and the EU have invested in research in the last decade to minimise the problem and develop advanced measurement systems to detect these numerous and complex chemicals. The ability of treatment processes to remove or degrade these chemicals thereby reducing their impact has also been studied. This workshop will highlight the current situation regarding the EDCs issues and if the steps taken to date have been successful in minimizing their environmental impact. It will also consider the environmental, process and measurement issues that face the industry in meeting this challenge.

Chair: Sam Tohill, Cranfield University

- 09.15 Coffee & registration
- 10.00 Introduction
Sam Tohill, Cranfield University
- 10.15 An overview of the endocrine disruption issue
Paul Harrison & Philip Holmes, Institute of Environment & Health, Cranfield University
- 10.45 EDC removal- the national demonstration programme
Tony Butwell, WRc plc
- 11.15 Coffee
- 11.45 3 EDC removal plants at Hallam Fields – why and how
Les Stokes, Severn Trent Water plc
- 12.05 EDC removal at Hallam Fields – early results
Yvonne Narroway & John Churchley, Severn Trent Water plc
- 12.30 Discussion & Lunch
- 13.30 Removal of EDC in wastewater treatment works
Elise Cartmell, Water Science, Cranfield University
- 14.00 The analysis of steroid oestrogens by ELISA and removal by trickling filters
Chun Yang & Andrew Wheatley, Loughborough University
- 14.30 Sensors for Pesticides as Endocrine Disrupters
Seamus Higson, Cranfield Health, Cranfield University
- 15.00 Discussion & close

The cost of attending the Workshop is £67.50 inc VAT for members and £125 inc VAT for non-members. Literature may be distributed for a fee of £50 incl VAT and a limited number of table top displays are available at £100 incl VAT each. 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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