

## Turbidity and coagulation control

24<sup>th</sup> November '05 - YW, Esholt Hall, Oak Room

Turbidity of final water remains the key indicator of drinking water quality and treatment process efficiency. It is used as the principal indicator of the likelihood of biological breakthrough. The combination of low turbidity and adequate chlorine residual is key to demonstrating the wholesomeness of water. This workshop draws together discussion on turbidity, its measurement and interpretation, along with a review of methods of process improvement and optimisation. The automatic control of the coagulation process based on incoming water conditions should be able to maintain final water quality parameters including turbidity. A variety of measurements and methods are used to try to attain this goal in continuous automatic operation and these will be reviewed along with the practical experience of users.

### Chair: Rhys Lewis, Severn Trent Services

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09.15	Coffee & registration	
10.00	Introduction	<b>Rhys Lewis, Severn Trent Services</b>
10.15	Turbidity and drinking water quality: A management tool or a health problem	<b>DWI</b>
10.45	How to extract meaning from on-line and laboratory measurement of turbidity.	<b>Andrew Hudson</b>
11.15	Coffee	
11.30	Coagulation optimisation using on-line instrumentation.	<b>Andrew Wetherill, Yorkshire Water plc</b>
12.00	Principles of coagulation control	<b>Alastair Campbell, Achromatic Ltd.</b>
12.30	Discussion & Lunch	
13.15	Enhanced coagulation control for optimum process performance.	<b>Peter Williams, United Utilities plc</b>
13.45	Full scale application of enhanced coagulation and direct filtration.	<b>Peter Hillis, United Utilities plc</b>
14.15	Monitoring turbidity	<b>John Moroney, Hach-Lange</b>
14.45	Surface water quality management	<b>Keiron Maher, Severn Trent Water Ltd.</b>
15.15	Discussion & close	

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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, 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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