

Filter bed control

3rd November 2005
Grafham Water,
Anglian WTW, Nr Huntingdon
PE28 0BW



Filtration has always underpinned the production of drinking water and includes slow sand filtration, rapid gravity sand filtration, pressure filtration and granular activated carbon filtration. One thing that all these filtration processes have in common is that they require active control for successful operation. Key factors are monitoring head-loss build up, monitoring filtered water quality, achieving the right backwash conditions, having well operated coagulation and pre-settlement processes and using appropriate start-up procedures.

This seminar brings together experts and practitioners to review and discuss the latest research and operational practices that have been developed over recent years. Anyone with an interest in more effective and efficient operation of this key part of water treatment will find it an education and an inspiration.

Chair: Ian Walker, WRc

09.45 Coffee & registration

10.30 Introduction

Ian Walker, WRc

10.40 Mathematical modelling of a gravity sand filter.

Jeremy Dudley, WRc

11.10 Process specific performance and diagnostic indicators applied to filter bed control strategies.

Michael Chipps, Thameswater

11.40 The determination of sludge blanket position and control using infra-red and sonar technologies in potable water applications.

Andrew Wallace, Partech Instruments

12.10 Discussion & Lunch

13.30 Effective filter backwashing

Caroline Fitzpatrick, University College London

14.00 Bed expansion measurement in RGF and pressure filters.

Andy Campbell United Utilities

14.30 Potentials for improving process control

Laurie Reynolds, Laurie Reynolds Associates Ltd.

15.00 Filter operation, control & management-the way forward?

Tom Hall. WRc

15.30 Discussion and close

The cost of attending the Workshop is £60 inc VAT for members and £95 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. Cheques should be made payable to SWIG and sent to: SWIG, St. Michael's House, Whittington, Carnforth, Lancashire. LA6 2NX Tel./Fax. 0044 (0) 15242 71461

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