

Water Treatment Alliance and Water Industry Operators Association of Australia

present

A One Day Seminar on Media Filter Assessment and Optimisation



WATER SERVICES ASSOCIATION
of Australia

Seminar to be held
31st March, 2009 at the
TAMWORTH REGIONAL
ENTERTAINMENT
& CONVENTION CENTRE
Greg Norman Drive, Tamworth

Take the opportunity to remain in Tamworth for the 1st and 2nd April and join us for the 3rd Annual WIOA NSW Water Industry Engineers & Operators Conference. Visit the WIOA website for more details or contact WIOA.

WIOA Contact:

Tel 03 5821 6744 or 0407 846 221

Fax 03 5821 6033

Email: info@wioa.org.au

Web: www.wioa.org.au

For accommodation options, contact
Tourism Tamworth on 02 6767 5315 or email Lauren
l.dale@tamworth.nsw.gov.au



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Tuesday 31st March 2009
AT THE TAMWORTH REGIONAL
ENTERTAINMENT & CONVENTION CENTRE

A One Day Seminar on Media Filter Assessment and Optimisation

Presented by Peter Mosse and Bruce Murray

Tuesday 31st March 2009

Program

8.45 - 9.00 - Registration

9.00 onward

Aims of Water Treatment (Peter Mosse)

The Real Hazards in Drinking Water (Peter Mosse)

- Why filters are essential to the production of safe drinking water

Water Treatment Systems and Control Points (Peter Mosse)

- Multiple barriers

Filters as a Control Point (Peter Mosse)

- Control limits and target criteria

- Why 0.1 NTU

- Concepts of Process Monitoring and Verification Monitoring

ADWG 2004 "Framework for the Management of

Drinking Water Quality" (Peter Mosse)

Operator Responsibilities (Peter Mosse)

Principals of Filtration and Filter Types (Bruce Murray)

- Slow and rapid gravity filters

- Media, UC and ES

- Sands, coals and gravels

Filter Operations (Peter Mosse)

- Determination of filter run times

- Determination of filter backwash times

Filter Inspection (Peter Mosse)

- Observing backwashes

- Determination of backwash turbidity profiles

- Determination of filtration rates (both pre and post backwash)

- Determination of backwash rates

- Media inspections

- Determination of bed fluidity and expansion

Coagulation and Filter Operation (Bruce Murray)

- Importance of good coagulation for filter operation

- Filter and coagulant aids

12.30pm - Lunch

Filter Backwashing (Bruce Murray)

- Air scouring

- Low and high rate backwashes

- Combined air/water washes

Filter Entry Requirements (Peter Mosse)

- OH&S requirements

SCADA Trending for Effective Plant Monitoring (Peter Mosse)

- Scaling

- Grouping

- Interpretation

Long Term Filter Monitoring (Peter Mosse)

- Turbidity vs time

- Cumulative probability plots

- Spike counter plots

Filter Failures and Filter Rehabilitation (Bruce Murray)

- Mud balls

- Failed Plenums

- Repeated backwashing

- Air lancing

- Scraping

- Caustic washing

- Filter rebuilds

The Australian Water Treatment Alliance (Peter Mosse)

- History, Milwaukee to the present

- Steps to the Alliance

4.30 - Finish

Registration fee includes a new publication

"Practical Guide to the Operation and Optimisation of Media Filters"

by Peter Mosse and Bruce Murray



Water Industry Operators Association of Australia

ABN 83 123 468 422

and the Water Treatment Alliance present...

**A One Day Seminar on Media Filters
Assessment and Optimisation**

TAX INVOICE / REGISTRATION FORM

First Name _____

Surname _____

Employer _____

Postal Address _____

Tel (Work) _____ Mobile _____

Facsimile _____

E-mail _____

REGISTRATION FEE:

WIOA Member @ \$99 (inclusive GST) pp \$ _____ (inc GST)

Non Member @ \$132 (inclusive GST) pp \$ _____ (inc GST)

WIOA Membership Forms available from www.wioa.org.au

Registration fee includes a copy of the publication

"Practical Guide to the Operation and Optimisation of Media Filters"

Total Amount Payable \$ _____ (inc GST)

CREDIT CARD PAYMENTS

Card Name _____

Card Number

Expiry Date Signature _____

Registration Fee includes morning and afternoon tea, lunch and the publication.

REGISTRATIONS CLOSE Wednesday 25th March 2009.

PAYMENT MUST ACCOMPANY THE REGISTRATION FORM

Cheques

Payable to: WIOA

Mail to:

PO Box 6012

SHEPPARTON VIC 3632

EFT details

Westpak Bank

BSB: 033 254

Ac No.: 327012

Fax Remittance to no. below

WIOA Contact Details

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