

INVITATION TO REGISTER

EWWM

2nd EUROPEAN WATER AND WASTEWATER MANAGEMENT CONFERENCE

29 – 30th SEPTEMBER 2008
THINKTANK, BIRMINGHAM, UK



ORGANISED BY



SUPPORTED BY



BRITISH WATER
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MEDIA PARTNER



- SEWERS AND DRAINAGE
- SUSTAINABLE ENGINEERING
- INLET WORKS
- WASTEWATER TREATMENT
- ADVANCED TERTIARY TREATMENT
- ENERGY EFFICIENCY AND CARBON EMISSIONS REDUCTION IN THE WATER INDUSTRY
- CARBON FOOTPRINTING AND ENERGY MANAGEMENT
- NUTRIENT AND PHOSPHORUS REMOVAL
- ODOUR MANAGEMENT
- FUTURE WATER: THE UK GOVERNMENT'S WATER STRATEGY
- WATER QUALITY POLICY
- THE WATER FRAMEWORK DIRECTIVE - WILL IT IMPACT THE WATER COMPANIES?
- DRINKING WATER CONTAMINANTS

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THINKTANK, BIRMINGHAM, UK

MONDAY 29TH SEPTEMBER 2008
DAY 1

OPENING PLENARY SESSION

Delivering Value Through Long-Term Asset Management

George Day, Head of Asset Strategy and Interim Director,
Network and Regulation, OFWAT

- **Deterioration Modelling in Modern Asset Management**
- **Serviceability Modelling**
- **Integration of Unit Costs and Asset Serviceability Modelling**

Clive Deadman, United Utilities

SEWERS AND DRAINAGE

Contemporary Sustainable Drainage: Time for a Paradigm Change

Schofield, D., Arup, UK

Sustainable Drainage Systems by Design; Threat or a Promise?

Roberts, C.¹, Illman, S.², and Puckmayr, J.², ¹University of Gloucestershire, ²Illman Young Landscape Design Limited, UK

Implications for Treatment Processes and Networks Following Water Saving Initiatives

Prior, K.¹, Machell, J.², Boxall, J.², Saul, A.², ¹CookPrior Associates Ltd, ²Pennine Water Group, University of Sheffield, UK

Low Cost Continuous Collection of Sewer System Condition Data

Cutting, J., Mouchel, UK

Key Performance Indicators for a Better Management of Treatment Plants, Pumping Stations and Public Sewer Network in Mauritius

Soonarane, R., Wastewater Management Authority, Mauritius

Achieving Better Bathing Waters Through a Truly Integrated Multi-Catchment Approach in Barry, South Wales

Jones, J.¹ and Barnock, N.², ¹JRJ Consulting, ²Metoc, UK

Australian Experience Training CCTV Operators and Asset Managers

Weatherstone, S., Streamline Learning, Australia

SUSTAINABLE ENGINEERING

Water Framework Directive: Sustainable Treatment Solutions to Achieving Good Ecological Status

Andrews, J. and Hobson, J., WRc plc, UK

Climate Change Resilience for Small Treatment Works

Fernance, D., The National Trust, UK

SEA Change or Just a Minor Ripple?

Davis, P. and Barker, M., Entec UK Ltd, UK

Risk Management for the Revised Bathing Water Directive: How to Identify Failure Mechanisms and Management Strategies for Compliance

Dannatt, R., Franklin, S. and Saunders, A., Metoc, UK

Asset Management in the Context of Environmental Impact: Optimising Investment, Performance and Maintenance

Dannatt, R., Saunders, A. and Lester, J., Metoc, UK

Feasibility Study on Grey Water Reuse

Jiang, J., Acheampong, B., He, Q., Balazs, T. and Bancroft, T., Faculty of Physics Science, University of Surrey, UK

Already with Hydraulically Inadequate Sewers and Odour Problems – How Will Doha Manage A Tripling of the Population by 2030, Whilst Still Addressing the Green Agenda?

Bottom, S. and Graham, H., Gutteridge Haskins and Davey Ltd, Australia

Predicting the Impact of Projected Change in Agriculture by 2015 on the Likelihood of Catchments across England and Wales Meeting 'Good Ecological Status' for Sediment

Collins, A.L., Anthony, S.G., Turner, T., Hawley, J., ADAS, UK

INLET WORKS

Screenings Handling Equipment – Solving Operational Problems

Spencer, C., JWC International, UK

Inlet Works: Design Approach and Experiences in Yorkshire Water

Fell, C. and Green, S., Yorkshire Water, UK

WASTEWATER TREATMENT

Wastewater Treatment Works Flows and Loads Optimisation in CFD

Robinson, C.M.E. and Ganeshalingham, J., MMI Engineering, UK

The Wehrle 'lo-energy' Crossflow (sidestream) MBR

Robinson, T., Wehrle Environmental, UK

Development and Validation of a Multi-Configurable MBR Fouling Model

Janus, T. and P. Paul, Water Software Systems, Faculty of Computing Sciences and Engineering, De Montfort University, UK

Development and Application of a CFD Tool Applied to the Anoxic Zone Design

Wilson, R.¹, Egarr, D.¹ and Burt, D.², ¹Severn Trent Water Ltd, ²MMI Engineering Ltd, UK

Control of Active Biomass in Biological Wastewater Treatment Systems Through New Generation of ATP-Methods: Improving Effluent Toxicity Monitoring and Optimisation of Performances in Bioreactors

Delporte, C.¹, Todorova, V.² and Raymond, M.², ¹Ondeo Industrial Solutions, ²Aqua-tools, France

ADVANCED TERTIARY TREATMENT

Expanded Bed Technology for Biological Wastewater Treatment

Dempsey, M., Advanced Bioprocess Development Ltd and Manchester Metropolitan University, UK

Use of Disc Filters in Tertiary Solids Removal

Barter, P., Hydro International, UK

Metals Removal from Final Effluent using Virotec Filtration Media

Lowe, M., Aqua Enviro Limited, UK

Operation of Advanced Treatment Processes at Ilkeston STW for EDC Removal

Churchley, J. and Narroway, Y., Severn Trent Water Ltd, UK

FUTURE WATER: THE UK GOVERNMENT'S WATER STRATEGY

Session organised by

Dr. James O. Jenkins, University of Hertfordshire

Chair: Professor Bob Breach,

Water Quality and Environmental Consultancy

Leading regulatory and industry practitioners are brought together to provide delegates with a unique opportunity to understand how the water industry and its regulators are responding to the UK government's water strategy. The session concludes with a panel led to discussion that offers delegates the opportunity to question guest speakers.

The Regulator Perspective

David King, Director of Water Management, Environment Agency

Nick Ellins, Head of Policy and Research, Consumer Council for Water

Dr. Cheryl Case, Head of the Water Strategy Team, DEFRA

The Water Industry Perspective

Richard Critchley, PRO9 Water Supply Demand Manager, United Utilities

Mike Pocock, Head of Strategic Planning, Three Valleys Water PLC and Veolia Water

The session concludes with a panel led discussion

WATER QUALITY POLICY

Evaluating the Impact of Policy Formation on Implementation: The Case of Drinking Water Directive 80/778/EEC

Jenkins, J., University of Hertfordshire, UK

Water Quality Monitoring and Modeling Studies to Support Resource Management Decisions

Evans, D.J. and Jones, V., Atkins Limited, UK

Delivering Plans to Ensure Safe Drinking Water

Homewood, J., Atkins, UK

Public Awareness Campaign For Natural Drinking Water in Ljubjana, Slovenia

Jamnik, B., JP Vodovod-Kanalizacija, Slovenia

Balancing Levels of Service with Estimates of Source Yield

Piper, B., Atkins Water Resources Management, UK

New Passive Sampling Device for Improved Monitoring of Drinking Water and Groundwater Resources

De Jonge, H. and Møller, M., Sorbisense A/S, Denmark

Lotic Eutrophication – Case Study of a Tropical River in Southeast Brazil

Gasparini Fernandes Cunha, D. SHS/EESC/USP. Department of Hydraulics and Sanitary Engineering, Brazil

ENERGY EFFICIENCY AND CARBON EMISSIONS REDUCTION IN THE WATER INDUSTRY

Mouchel has carried out extensive work to look at novel ways of addressing some of the industry's largest areas of energy consumption, such as pumping and activated sludge aeration. We are working with known techniques as well as providers of novel software and technology to provide optimum solutions for energy efficiency. In addition we are working with the industry to identify opportunities for embedded renewable generation, including small scale hydro and anaerobic digestion.

Some of the key areas for discussion include:

- Voltage optimisation
- Pump optimisation
- Process optimisation
- Small scale hydro
- Anaerobic digestion
- Biosolids processing

Speakers : **Fiona Griffiths, Martin Hall** and **Laurie Reynolds,** Mouchel

CARBON FOOTPRINT & ENERGY MANAGEMENT

Calculating the Carbon Footprint of Wastewater Treatment Plants

Hunt, P., Earth Tech Engineering Limited, UK

Sustainable Environmental Projects – a bottom up approach

Wilson, R., Pell Frischmann, UK

Calculating the Carbon Footprint of a New Sewage Treatment Works for Nutrient Removal

Jolly, M., Knight, G. and Strutt, J., Black & Veatch UK

Nutrient Removal Versus Carbon Footprint Reduction in Wastewater Treatment: An Acceptable Balance

Ifelebuegu, A., Severn Trent Water Ltd, UK

Energy Use and Carbon Footprint for Waste Water and Sludge Treatment

Wall, D. and Holland, G., MWH Global, UK

Reducing Carbon Footprint by being Specific about Energy Saving

Griffith, F., ABB Ltd, UK

Electricity Production, H2 Generation and CO₂ Mitigation

During Wastewater Treatment by a Modified Fenton Process

Tokumura, M., Morito, R., Znad, H.T. and Kawase, Y., Research Center for Biochemical and Environmental Engineering, Department of Applied Chemistry, Toyo University, Japan

Carbon Footprinting AMP4 Projects

Black, J. and Rands, J., United Utilities, UK

NUTRIENT & PHOSPHORUS REMOVAL

Design Selection, Construction and Commissioning of Three Tertiary Denitrification Filter Systems for the Southern Water AMP4 Programme

Barnes, C., MWH Global, UK

Actual Works Performance – Robust Design for WFD Consent Changes

Wickens, D., Severn Trent Water Ltd

Practical Experiences From Implementing Total Nitrogen Removal in the UK: Meeting the 10 mg N/L standard with 4 Stage Bardenpho

Sunner, N., MWH Global, UK

Implementing Nitrifying Sand Filters for Combined BOD and Ammonia Reduction: A Selection, Design and Performance Review

Yimam, M., MWH Global, UK

Evaluation of Suitable Design Configurations for Enhanced Biological Phosphorus (EBPR) at Minworth WwTW

Pitt, S.¹, Hale, C.¹, Kaur, K.¹, Vale, P.² And Wilson, R.²,
¹WatStech Ltd, ²Severn Trent Water Ltd, UK

Fermenting RAS to Improve BNR

Thomas, D., Severn Trent Water Ltd, UK

A Review of Chemical Dosing for Phosphorus Removal: Lessons Learnt

Abudu, A., Severn Trent Water Ltd, UK

ODOUR MANAGEMENT

Emergence of Odour Standards for the Wastewater Sector

Hall, D., Entec UK Ltd, UK

Odour Management – Taking it Seriously

Peirson, S., ADAS Environmental Group, UK

Autonomous Odour Alert System

Mesbah, B.¹ and Micone, P.², ¹Airfobep, ²Odotech, France

Development of Probabilistic Dispersion Modeling for Odour Impact Assessment from DCWASA Reuse site

Intarakosit, E.¹, Baecher, G.B.¹, Peot, C.² and Ramirez, M.²,
¹University of Maryland, ²DC Water and Sewer Authority, USA

THE WATER FRAMEWORK DIRECTIVE – WILL IT IMPACT THE WATER COMPANIES?

Chair – Tony Harrington, Head of Environment, Yorkshire Water

Where are we at with the WFD?

Martin Booth, Water Framework Directive Programme Executive, Environment Agency

Is OFWAT considering the implications?

Water Company awareness of the WFD

Facilitated Panel Discussion including above speaker plus
Amanda Craig, Major Project Manager – PRO9, Natural England,
Simon Tait, Professor of Civil Engineering, University of Bradford led by the Chair with audience involvement.

DRINKING WATER CONTAMINANTS

Global Perspective - Filtration in Potable Water Treatment. Cost and Process Benefits of a Purpose-designed Filter Media

Kjølseth, P.A.¹ and Esplin, M.², ¹maxit as, ²AMT Systems Ltd, UK

NDMA and Other Nitrosamines in UK Drinking Water

Chen, Z. and Templeton, M.R., Department of Civil and Environmental Engineering, Imperial College, London, UK

Survey of PFOS in Raw and Drinking Water Sources in the

Atkinson, C.¹, Hall, T.¹, Kanda, R.², Foster, J.³ And Rumsby, P.¹, ¹National Centre for Environmental Toxicology, WRc plc, ²STL, ³Drinking Water Inspectorate, UK

Removal of Perfluorinated Compounds by GAC Treatment

Markall, B., Anglian Water Services, UK

Manganese Removal in Potable Water Treatment – A Black Art

Robinson, P., Scottish Water, UK

A Low Maintenance System for Removal of Iron and Manganese from Contaminated Groundwaters

Sapsford, D.J. and Williams, K.P., Cardiff School of Engineering, Cardiff University, UK

Assessing the Service Life of Field-Spent GAC Using Rapid small Scale Column Tests (RSSCTs)

Kaur, K., Hale, C. and Pitt, S., WatStech Ltd, UK

SPONSORSHIP & EXHIBITION

If your organisation works within the water and wastewater industry this event can provide you with the ideal vehicle to build your brand, and raise awareness of the products and services that you offer. We will work closely with you to ensure you gain real benefits from being associated with this leading event.

THE COMPLETE SPONSORSHIP PACKAGE

- Company logo on all marketing materials
- 30% delegate discount
- Insert in the delegate packs
- Provide a Chair for a Technical Session
- 1/2 page colour advert or editorial in the conference programme
- Prime exhibition space
- Link from the conference website to your company website
- Pre-conference mailing to conference delegate

OTHER MARKETING OPPORTUNITIES INCLUDE:

- Session Sponsorship
- Insert in delegate packs
- 1/2 page colour advert in conference programme
- Special Invitation Service

EXHIBITION OPPORTUNITIES

The aim of the exhibition is to provide a relaxed and informal setting for attendees to meet with the key suppliers to the industry. This is the ideal platform for your organisation to promote the products and services that you offer:

- 3m x 2m stand space
- 250+ delegates over the 2 days
- The opportunity to invite guests to visit the exhibition
- Keep in close contact with key people in the industry, including designers, engineers, scientists and sales managers
- Delegates and speakers represent water companies, consultancies, technical associations, universities, research establishments, process suppliers, Government departments and agencies, and contractors
- Lunch, morning and afternoon refreshments are served in the exhibition area which allows approximately 2 hours per day to network with potential clients
- Pre-conference mailing options to delegates and opportunity to announce new product launches
- 20% discount on delegate fees to attend the conference

Please contact **Rachel** to discuss your requirements on

Tel. 01924 257891

rachelwilliamson@aquaviro.co.uk

Booking Form

You can register and pay by credit card online at www.aqua-enviro.net or complete the form below and return by **fax on +44 (0) 1924 257 455** or post the form to the address below.

Please note registrations for the conference will not be accepted without either payment or an Official Purchase Order Number.

DELEGATE DETAILS

I would like to register to attend the **2nd European Water and Wastewater Management Conference:**

Title _____

Name _____

Organisation _____

Address for Correspondence _____

Postcode _____

Tel _____

Fax _____

Email _____

FEES

FULL DELEGATE £480 (+VAT) = **£564.00**

AUTHOR RATE £390 (+VAT) = **£458.25**

DAY RATE £280 (+VAT) = **£329.00**

AUTHOR DAY RATE £210 (+VAT) = **£246.75**

CONCESSIONARY DAY RATE
£100 (+VAT) = **£117.50**
(full-time students, academics and charities)

COMPANY PASS £500 (+VAT) = **£587.50**

If you are registering for the day please select:

Monday Tuesday

MEET & GREET Sunday 28th September **FREE**

BIRMINGHAM BALTI Sunday 28th September
£15 + (VAT) = **£17.63**

CONFERENCE DINNER MON 29TH SEPTEMBER
£50.00 (+VAT) = **£58.75**

Please tick if you are vegetarian

Other special dietary requirements:

COMPANY PASS

We are offering the Company Pass for the special fee of £500 (+VAT) this includes 1 person to attend on each day of the conference. This saves £60 compared to two single day rates. Please ensure you provide the name of the person attending on each day:

Day 1 _____

Day 2 _____

REGISTRATION DETAILS

To assist us in allocating appropriate rooms for each session please tick the sessions you plan to attend in the boxes below:

MONDAY 29TH SEPTEMBER

- Opening Plenary Session
- Sewers and Drainage
- Sustainable Engineering
- Inlet Works
- Wastewater Treatment
- Advanced Tertiary Treatment
- Future Water: The UK
- Government's Water Strategy
- Water Quality Policy

TUESDAY 30TH SEPTEMBER

- Energy Efficiency and Carbon Emissions Reduction in the Water Industry
- Carbon Footprint and Energy Management
- Nutrient and Phosphorus Removal
- Odour Management
- The Water Framework Directive – Will it impact the Water Companies?
- Drinking Water Contaminants

METHOD OF PAYMENT

CHEQUE: I enclose a cheque for

£ _____

Payable to AE Technology Transfer
(A VAT Receipt will be sent automatically).

INVOICE: Please invoice for the sum of

£ _____

Purchase Order _____

Contact Name _____

Contact Number _____

Invoice Address _____

CREDIT/DEBIT CARD:

Card Type _____

Card Number _____

Name on card _____

Expiry date _____

Issue number (for Switch) _____

Security number (last 3 digits on reverse of card)

Registered address (if different to delegate address above)

SPONSORSHIP AND EXHIBITION OPPORTUNITIES

- I would like to receive information about sponsorship and exhibition opportunities at forthcoming events.

To discuss sponsorship and exhibition opportunities at our events, please contact:

Rachel Williamson

Tel: +44 (0) 1924 257 891

Fax: +44 (0) 1924 257455

Email: rachelwilliamson@aquavenviro.co.uk

TERMS AND CONDITIONS

A charge of £40 (+VAT) will be levied for cancellations made up to 20 days prior to the event. Cancellations after this period will be liable for payment of the full fee. Payments should be received 30 days of receipt of invoice.

Signature _____

Date _____

ENQUIRIES AND BOOKING FORMS DIRECTED TO:

AE Technology Transfer, Unit 8, Appleton Court,
Calder Park, Wakefield WF2 7AR

Tel: 01924 257 891 Fax: 01924 257 455

Email: conferences@aquavenviro.co.uk

www.ewwmconference.com

www.aqua-enviro.net



13th EUROPEAN BIOSOLIDS AND ORGANIC RESOURCES

CONFERENCE, WORKSHOP AND EXHIBITION

10TH – 12TH NOVEMBER 2008

LANCASHIRE COUNTY CRICKET CLUB, MANCHESTER, UK



Introduction

This year's event shows many changes to our previous Conferences and these have been put in place to deliver the sort of Conference you wish to attend as based on comments from regular attendees and the response to on-line questionnaires. With the present level of work in the industry, people's time is at a premium and more important than ever. This has been reflected by a reduction in the duration of the conference from two to three days. However less is often more and this change has necessitated that the conference sessions and themes are much more focussed. A record number of Abstracts has helped in this respect and a strict refereeing and selection process has meant only 60% of the Abstracts submitted have been accepted. As a result the technical sessions are of the highest quality covering the full range of issues across water and wastewater treatment. There have also been major changes in the focus of interest within the profession and sustainable engineering in its many forms, and perhaps not surprisingly, carbon reduction and energy management, have proved to be some of the more popular topics, based on the Abstracts submitted.

This year also sees a greater number of organised workshops and as well as carbon management there is a very an excellent session devoted to the Future Water, the Government's proposed Strategy for Water with an opportunity to hear from the key figures across the industry in this debate. It would be prescient of the industry to consider the likely impact of the Water Framework Directive. Consequently a Workshop has been organised to discuss awareness amongst the Water Companies of the WFD and its implications. Delegates often judge the success of a conference on the opportunities to meet and discuss with colleagues in an informal atmosphere. Thus the social opportunities can be as important as the technical debates. We are sure the delegates will find this year's exhibition an ideal environment for networking. In addition the pre-conference meet and greet at the Think Tank Planetarium will provide delegates with an adventure in time and space that will be remembered long after the debates are forgotten. We at Aqua Enviro hope you find this Conference a very useful opportunity to keep up-dated both with current thinking and technical advances, as well as providing an ideal environment to welcome old colleagues and meet the new generation of water engineers and scientists.

The Venue

The ThinkTank is Birmingham's museum of science with fantastic modern, versatile conference facilities. You can check up on the Recycle! exhibition and "explore the surprising science behind household recycling, marvel at the unexpected objects that can be made from your everyday domestic waste" and see if you could do better. Based at Birmingham's landmark Millennium Point, just 10 minutes walk from the city centre. Visit www.thinktank.ac for further details about the venue.

Accommodation

We advise booking accommodation as early as possible. There are a large number of hotels nearby. We recommend www.allukhotels.co.uk or www.booking.com to search for local hotels using the venue postcode B4 7XG.

Getting There

Birmingham has been selected as the location for this conference to allow easy access by public transport. Delegates will receive full directions when they register.

RAIL

The venue is approximately 15 minutes walk from New Street Station in the centre of Birmingham. National Rail Enquiries can provide timetable information to New Street Station. Call **08457 484 950** or visit www.trainline.co.uk.

ROAD

Millennium Point is located three miles from Junction 6 of the M6, 9 miles from Junction 3 of the M5 and 11 miles from Junction 6 of the M42. Millennium Point will be signed from these junctions. Secure parking is available on site. Full road directions will be emailed to delegates when they register alternatively you can visit www.thinktank.ac.

AIR

Birmingham International Airport is located at the centre of the national motorway network. The airport is just 8 miles (13km) east of Birmingham City Centre. There are frequent trains running between the airport and Birmingham New Street Station, which is located in the city centre. The journey time is between 10 and 20 minutes.

Social Activities

Sunday 28th September

AN EVENING WITH THE STARS

When you arrive in Birmingham on Sunday evening why not join us at the ThinkTank for the pre-conference meet and greet. Enjoy informal drinks in the conference exhibition and the opportunity to network with other delegates and exhibitors. Followed by a special viewing of the digital planetarium, this state-of-the-art technology presents breathtaking images onto a 360° domed ceiling, with the audience right in the centre of the action. An inspiring exploration of the night sky, our galaxy and beyond.

And to end the evening we will be heading into the city to enjoy a famous Birmingham Balti curry!

Please ensure you reserve your place by ticking the relevant box/es on the booking form. Note: the meet and greet is free of charge, however if you would like to join us for the Balti curry there is a charge of **£15.00 (+VAT)**

The sky's the limited – interested in having your company name shining amongst the stars? Please contact **Rachel** on **Tel. 01924 257 891**.

Monday 29th September

CONFERENCE DINNER AT METRO

We have exclusive use of the Metro Bar and Grill, which is located in the city centre. This smart, contemporary restaurant provides the perfect setting to relax and enjoy good food. Tickets are available to purchase for **£50.00 (+VAT)** per person, this includes arrival drink, 3-course dinner and ½ bottle of wine. Please tick the relevant box on the registration form to reserve your place.

Corporate tables and sponsorship packages are also available, please contact **Sarah** for further details **Tel. 01924 257 891**. www.metrobarandgrill.co.uk

CURRENT EXHIBITORS

AQUA ENVIRO LIMITED

BRITISH WATER

ERG AIR POLLUTION CONTROL LIMITED

EUROPEAN WATER NEWS

METOC PLC

MOUCHEL

MONO PUMPS LIMITED

RPS

STL LIMITED

STRATHKELVIN INSTRUMENTS LIMITED

WATER INDUSTRY FORUM