



The Chartered Institution of Water
and Environmental Management



SWIMMING POOLS & SPA BATHS EFFECTIVE CONTROL OF WATER QUALITY AND PUBLIC HEALTH

CHANCELLORS HOTEL & CONFERENCE CENTRE, MANCHESTER WEDNESDAY 30TH NOVEMBER 2005



Introduction

As a manager, operator or owner of swimming pools or spa baths, are you fully convinced that your management, treatment and water quality monitoring systems are well controlled, safe and "fit for purpose"?

The Water Supply and Quality Panel of CIWEM has organised this one-day conference to discuss controlling water quality to protect public health. Confidence that all is well in this sensitive area, underpins the security and well being of the clientele using the diverse range of water-based recreational and leisure facilities that are now so much part of our lifestyle.

This event will enable you to evaluate meaningfully the current status of your "systems of work" so that you, as the "responsible person" can be confident that the systems are indeed well managed, effectively controlled and safe! Speakers at the conference include leading public health specialists from the UK's Health Protection Agency, who will provide critical overviews of the risks to the public health of users of these facilities that are posed by poor management and ineffective control of the treatment and quality of swimming pool and spa bath waters.

The conference will expand upon the findings that almost one in four hot tubs have been found to be infected with the bacterium responsible for outbreaks of Legionnaires Disease. Investigations into the outbreaks

linked with spa baths and whirlpools revealed that the installations involved were poorly designed, ineffectively managed, or operated by staff that were inadequately trained. Some 300 cases of Legionnaires Disease are reported in England on an annual basis and 10-15% of these cases prove to be fatal. Several thousand fitness clubs and almost 500 health spas now operate throughout the UK. It is estimated that up to 5 million people regularly use these water-based facilities.

Case studies relating to the incidence of skin disease, debilitating infections and tissue damage that is linked to the presence of harmful bacteria in the water environment will also be discussed. Senior figures in the Spa Business Association will highlight the importance of using reliable specification and design criteria in the procurement, installation and operation of "pools and baths" to ensure an aesthetically pleasing and safe water environment for users.

Consultants linked with the invaluable services provided by the Pool Water Treatment and Advisory Group (PWTAG), will also emphasise the need for ensuring effective management, maintenance and control of treatment plans and, in particular, disinfection techniques. Training of management and pool staff, especially those responsible for implementing monitoring programmes to check and record water quality, to provide evidence of "best practice", is an essential feature of the drive

towards regulated activities and "quality assured" style methods of working at these water based facilities.

The conference will appeal to those who own, manage, regulate and operate water based leisure and recreational facilities. It is intended to supplement the knowledge base of those seeking formal training and certificate in pool management and operation. Attendees will also find contact with leading UK specialists beneficial in helping to identify and implement improvements to current systems of work and operation control, especially at the more vulnerable installation.

Venue

Chancellors' is a hotel and conference centre in five acres of landscaped grounds, three miles from Manchester city centre. Chancellors exudes country house elegance with efficient, modern conference facilities and free on-site car parking. The venue also has bedrooms furnished to a 3-star standard.

To make a reservation at Chancellors' please contact the reception directly by calling **(0161) 907 7414** or e-mail **chancellors@manchester.ac.uk**. Please make sure you state that you are attending the Aqua Enviro Conference on 30th November. For details of alternative local hotels, please contact **franceseldon@aquavenviro.co.uk**.

YOU CAN NOW REGISTER AND PAY ONLINE AT WWW.AQUA-ENVIRO.NET

Timetable

9.30 - 10.15

Registration and Coffee

10.15 - 10.20

Chairperson's Introduction

C. Brian Buckley,

Consultant (Risk & Water Science)

10.20 - 10.50

Management and Regulation

Janice Calvert,

Oakland Calvert Consultants

- Current and impending guidance for management and regulation of swimming and spa pools
- Basics to be considered to achieve satisfactory water quality
- Regulation and implications of non compliance.

10.50 - 11.20

Spa Baths

Spa Business Association

11.20 - 11.40

Coffee Break

11.40 - 12.10

Disinfection - Techniques and Pitfalls

David Bonnick, Technology Manager, Wallace & Tiernan

- Why do we need disinfection?
- How do we achieve effective disinfection?
- What are the problems with disinfection and how do we overcome them?

12.10 - 12.40

Water Treatment and Cryptosporidium Control

Dr Brian Croll,

Water Quality Management Ltd

- Removal of Cryptosporidium by filtration
- Results of recent research into Cryptosporidium removal
- PWTAG advice in the event of suspected contamination

12.40 - 13.00

Discussion

13.00 - 14.00

Lunch

14.00 - 14.30

Public Health Implications

Dr Gordon Nichols,

Health Protection Agency

- Outbreaks at home and abroad give us a picture of what we know about the risks.
- It is likely that many small outbreaks go unrecognised and there is probably a burden of illness related to swimming pool use that varies between pool types.
- Understanding the factors that contribute to outbreaks allows us to recommend how a well run pool should be operated.

14.30 - 15.00

Monitoring Programmes in Spa pools, A Westminster Experience

Peter Firth, Environmental

Health Enforcement Officer, Westminster City Council

- What monitoring programmes should be in place, legislative background, guidance recommendations, outline of tests required, frequency etc.

- What we found in Westminster, the main areas of non compliance, the problems we encountered, where organisations failed to comply with recommended guidance
- Improvements effected, enforcement, advice, requirements and recommendations

15.00 - 15.20

Coffee Break

15.20 - 15.50

Pseudomonas infections and pools

Dr John V. Lee

Health Protection Agency

- Pseudomonas aeruginosa is a very adaptable bacterium that can grow in low nutrient aquatic environments and can cause a variety of infections some of which can be contracted from swimming, hydrotherapy and spa pools.
- Appropriate design and maintenance can prevent the colonisation reaching levels that present a risk to the health of pool users but control is sometimes difficult to achieve in systems that have become colonised.
- The routine testing of pool water for the presence of P. aeruginosa is recommended in guidance documents as an audit of the management of the microbial quality of the pool water and the procedures for doing this, interpretation of the results and possible responses to the results will be considered.

15.50 - 16.20

Controlling Legionella

Dr Susanne Surman-Lee,

Health Protection Agency

16.20 - 16.40

Discussion

16.45

Close

Forthcoming Events 2006

Infrastructure Asset Maintenance and Management

11th January 2006

The National Motorcycle Museum, Birmingham

World Wetlands Day Conference

1st-2nd February 2006 - London

Email: bob.earll@coastms.co.uk

Water Framework Directive - Monitoring and Reporting

February 2006 - London

Email: bob.earll@coastms.co.uk

Disinfection - Risk and the Regulatory Regime

Spring 2006

Inorganics in Drinking Water

Spring/Summer 2006

Water Industry Technical Issues Theme

Summer 2006

Email: bob.earll@coastms.co.uk

CIWEM National Conference 2006

14th-16th September 2006

St James' Park, Newcastle

The Chartered Institution of Water and Environmental Management (CIWEM) is the leading Chartered body for those involved in sustainable management of the environment. All non-CIWEM-member conference delegates will receive CIWEM Environmental Partner grade membership to the end of December 2006. They will also receive free copies of our magazine and have the opportunity to be involved in local CIWEM events and activities.

For more information, contact membership@ciwem.com or see www.ciwem.org.

Registered Charity No: 1043409. VAT No: 460 5613 62.

Booking Form

Delegate Details

I would like to register to attend the **'Swimming Pools & Spa Baths Effective Control of Water Quality and Public Health'** conference being held on the 30th November 2005 at the Chancellors Hotel & Conference Centre, Manchester

Title _____

Name _____

Organisation _____

Address for Correspondence _____

_____ Postcode _____

Tel _____

Fax _____

Email _____

Please select from the following options your interest areas:

- | | |
|--|--|
| <input type="checkbox"/> WASTEWATER | <input type="checkbox"/> WATER RESOURCES |
| <input type="checkbox"/> BIOSOLIDS | <input type="checkbox"/> SUSTAINABILITY |
| <input type="checkbox"/> WASTE | <input type="checkbox"/> CONSERVATION |
| <input type="checkbox"/> WATER QUALITY | <input type="checkbox"/> AIR QUALITY |

Sponsorship and Exhibition

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

Fees £210 + £36.75 VAT = **£246.75**

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 _____

Invoice Address _____

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: 0113 2424200 Fax: 0113 2442166

Email: franceseldon@aquainviro.co.uk