

Introduction

This international conference will be organised by IWW Water Centre (DE), RSC (UK) and SCI (UK). A scientific poster session and an exhibition related to the topics of the conference will be included. It is expected that more than 200 attendees from all over Europe will take part. You will have the opportunity to talk to decision makers from water companies and regulators. The relevant scientific community will also be present.

The programme comprises eleven keynote speakers and some twenty speakers from the call for papers.

Call for Posters

The call for posters is open, and the closing date for submissions is 19th September.

Who should attend?

This conference is aimed at water companies, public health professionals, drinking water quality regulators, suppliers of laboratory and on-line monitoring equipment, analytical chemists, and academic and industry researchers working in the area of disinfection by-products.

Features of the conference

- Discussion rounds at the end of each session
- Exhibition and poster sessions in every refreshment break
- Dedicated exhibition and poster session on Monday afternoon
- Two-minute oral poster presentations
- Poster prize awards ceremony
- Conference dinner with Mülheim Water Award ceremony
- Conference proceedings available to purchase, published by the Royal Society of Chemistry (€65 including speakers' full papers)



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Registration and Fees

Registration is now open and fees are:

450€	Member of the RSC, SCI, IWW, or WG
495€	Non-member
250€	Post-doctoral research assistant
150€	Post-graduate or undergraduate student

A late fee of 45€ will be added to all payments received after 19th September.

Local Information

The Municipal Hall (Stadthalle) is located in central Mülheim, alongside the river, and is the conference and dinner venue. Dusseldorf International Airport is less than 30 minutes away by train, and a list of suggested accommodation available is posted on the website.

Exhibition Opportunities

A related trade exhibition will be hosted, and details of what is offered are posted on the website. The exhibition will be in the same area as the catering and posters, and there will be a dedicated poster and exhibition session on Monday evening with drinks reception.

1,250€	Exhibition stand and one trade stand staff (no access to programme)
1,450€	Exhibition stand and one full delegate (with access to technical programme)
240€	Additional exhibition trade stand staff (no access to technical programme)

Additional optional exhibitor opportunities include:

- a single printed promotional page in the bound delegate handbook (gratis)
- a two-minute promotional oral presentation to the conference audience (gratis)

Sponsors

We are grateful to our confirmed sponsors:



Organising Committee

Ulrich Borchers (Co-chairman)
John Farmer (Treasurer)
Simon Gillespie (Co-chairman)
Emma Goslan
K Clive Thompson (Secretary)

IWW Water Centre
SCI Environment, Health and Safety Group
Scottish Water
Cranfield University
ALcontrol Laboratories

Programme Committee

Emma Goslan (Co-chairman)
Torsten Schmidt (Co-chairman)

Cranfield University
University of Duisburg-Essen

Contact

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www.DBP2014.eu

Final announcement



DBP 2014

Disinfection By-products in drinking water

27th-29th October 2014

Municipal Hall, Mülheim an der Ruhr, Germany

www.DBP2014.eu



Programme

Monday, 27th October

- 11:30 Registration, refreshments
13:00 Introduction
Chairman: Ulrich Borchers, IWW Water Research (DE)
- 13:00 *Welcome on behalf of the three sponsors*
Wolf Merkel, IWW Water Research (DE)
- 13:10 *Welcome on behalf of the Scientific Committee*
Emma Goslan, Cranfield University (UK)
- 13:15 Session 1: Emerging Disinfection By-products
Chairman: Emma Goslan, Cranfield University (UK)
- 13:15 *The next generation of drinking water: disinfection by-products: occurrence, formation, toxicity, and new links with human epidemiology*
Susan Richardson, University of South Carolina (US)
- 13:45 *Iodo-THM formation during chlorination of source waters with naturally occurring ammonium and high sodium content*
Anca-Maria Tugulea, Health Canada (CA)
- 14:05 *Characterisation of organic nitrogen in algal-impacted drinking water sources and its emerging N-DBP formation upon chlorination*
Xiang Li, University of New South Wales (AU)
- 14:25 *Formation of organic chloramines and their role in the formation of disinfection by-products*
Ina Kristiana, EPFL (CH)
- 14:45 *Chloramination and bromamination of amino acids: rate constants and formation of disinfection by-products*
Virginie Simon, Institut de Chimie des Milieux et des Matériaux de Poitiers (FR)
- 15:05 Questions and discussion
15:20 5 x two-minute poster presentations
15:35 Poster session, exhibition, and refreshments
- 16:20 Session 2: Online and Laboratory-based Monitoring
Chairman: Simon Gillespie, Scottish Water (UK)
- 16:20 *Tracing genotoxic N-DBPs after medium pressure UV water treatment by nitrogen labelling*
Bram Martijn, PWN Technologies (NL)
- 16:50 *The impact of on-line THM monitoring on drinking water plant design and total life costs and regulatory standards and requirements*
Rick Bacon, Aqua Metrology Systems (US)
- 17:10 *Detecting dissolved organic nitrogen via electro dialysis pretreatment*
Baiyang Chen, Harbin Institute of Technology (CN)
- 17:30 *Ionic DBPs - how to analyze?*
Detlef Jensen, Thermo Fisher Scientific (CH)
- 17:50 *On-line monitoring of disinfection by-products in chlorinated or chloraminated drinking waters by using absorbance and fluorescence indices*
Paolo Roccaro, University of Catania (IT)
- 18:10 Questions and discussion
18:20 Introduction to the exhibition
18:30 Exhibition, poster session and refreshments

Programme

Tuesday, 28th October

- 09:00 Session 3: Formation and Treatment of DBPs
Chairman: K Clive Thompson, ALcontrol Laboratories (UK)
- 09:00 *DBP treatment and removal: putting first things first*
Simon Parsons, Scottish Water (UK)
- 09:30 *Role of bromide in the formation of disinfection by-products: kinetic and mechanistic considerations*
Urs von Gunten, Eawag (CH)
- 10:00 *Effects of ozonation and UV-disinfection on NOM fractions and BDOC: experiences from full-scale WTPs in Norway*
Bjørnar Eikebrokk, SINTEF (NO)
- 10:20 *Influence of main matrix constituents oxidative processes on pollutant degradation and by-product formation*
Holger Lutze, University of Duisburg-Essen (DE)
- 10:40 Questions and discussion
10:50 5 x two-minute poster presentations
11:05 Poster session, exhibition, and refreshments
- 11:40 Session 3: Formation and Treatment of DBPs (continued)
Chairman: Hervé Gallard, University of Poitiers (FR)
- 11:40 *Minimizing nitrogenous disinfection by-product formation in impaired waters*
Bill Mitch, Stanford University (USA)
- 12:10 *Role of bromide for N-nitrosamine formation from nitrogen-containing precursors during ozonation*
Saskia Zimmermann-Steffens, EPFL (CH)
- 12:30 *NH₄⁺-N/NO₃⁻-N ratio: a surrogate measure for organic matter oxidation by OH radicals and ozone*
Glen de Vera, University of Queensland (AU)
- 12:50 *Impacts of ferrate treatment on DBP formation*
David Reckhow, University of Massachusetts (US)
- 13:10 Lunch
- 14:10 Session 3: Formation and Treatment of DBPs (continued)
Chairman: David Schwesig, IWW Water Research (DE)
- 14:10 *Disinfection by-products in recycled water: occurrence, health risk and factors that influence formation*
Kathryn Linge, Curtin Water Quality Research (AU)
- 14:40 *5 years on - performance assessment of 3 MlEX® systems in northern England for DBP pre-cursor removal*
Fadi Akkawi, Orica Watercare (UK)
- 15:00 *Removal of DBPs and precursors by high pressure membranes*
Katrin Doederer, University of Queensland (AU)
- 15:20 Questions and discussion
15:30 Exhibition, poster session, and refreshments

Programme

Tuesday, 28th October (continued)

- 16:10 Session 4: Health and Toxicology
Chairman: Susan Richardson, University of South Carolina (US)
- 16:10 *New developments in toxicologically monitoring of DBP*
Tamara Grummt, Federal Environment Agency (DE)
- 16:40 *Overview of human health effects associated with DBP exposure*
Cristina Villanueva Belmonte, CREAL (ES)
- 17:10 *Bioanalytical quality assessment of disinfected drinking water: the polar, the volatiles and the unknowns*
Daniel Stalter, University of Queensland (AU)
- 17:30 *Managing uncertainty in the provision of safe drinking water*
John Fawell, Cranfield University (UK)
- 18:00 Questions and discussion
19:00 Conference dinner

Wednesday, 29th October

- 09:00 Session 5: DBPs in Swimming Pool Water
Chairman: Torsten Schmidt, ZWU, University Duisburg-Essen (DE)
- 09:00 *Pool water DBPs - drowning in disinfection by-products?*
Christian Zwiener, University of Tübingen (DE)
- 09:30 *Bioanalytical and chemical evaluation of disinfection by-products in swimming pool water*
Beate Escher, UFZ (DE)
- 09:50 *Reaction kinetics of chlorine with human body fluids in swimming pool water*
Pei Hua, Technical University of Dresden (DE)
- 10:10 *Correlation between different disinfection by-products in swimming pool water and trihalomethanes in exhaled breath after swimming*
Laia Font-Ribera, CREAL (ES)
- 10:30 Questions and discussion
10:45 Exhibition, poster session and refreshments
- 11:25 Session 6: DBP Regulations and the Future
Chairman: Tamara Grummt, Federal Environment Agency (DE)
- 11:25 *The regulation of disinfection by-products*
Matt Bower, DWQR for Scotland (UK)
- 11:55 *DBP formation from the chlorination of organics in tea and coffee*
Thomas Bond, Imperial College London (UK)
- 12:15 Questions and discussion
12:35 Poster prize awards ceremony
Torsten Schmidt ZWU, University Duisburg-Essen (DE)
- 12:45 Lunch
- 13:55 Summaries on Sessions 1-6 (10 minutes per session)
14:55 Round-table discussion with moderator
15:40 Final summing up
15:50 Close

