

Abstract & Registration Information

Who should attend?

The conference is aimed at public health professionals, water companies, regulators, risk and business continuity managers, emergency planners, service and support providers, detection equipment suppliers, disaster recovery specialists, water security experts, and water distribution modellers.

Call for posters

Papers are invited for posters. They should relate to drinking water and drinking water systems with respect to the topics outlined below, with particular emphasis on effectively and efficiently managing the threats, sharing learning experiences and best practice both now and in the future.

To submit an abstract, please download a template from the conference website and submit to the Secretariat. Due dates are:
19th September 2012 posters
13th January 2013 full papers (mandatory)

Registration Fees

Registration fees range from €220 -€495, including conference dinner. Please see the website for further information.

Proceedings

The proceedings will be published by the RSC who have published books from the four previous successful conferences. The pre-conference charge for proceeding is €60. In addition, a set of four proceedings for the previous four conferences is available at the discounted price of €340.

Invited Speakers

The conference will feature keynote lectures from the speakers below:

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| <ul style="list-style-type: none">• Jakob Helbing• Steve Hrudey• Talis Juhna• Cyrille Lemoine• Wolf Merkel• Akira Miyazaki• Virginia Murray• Michèle Prévost• Gerald Rockenschaub• Philippe Sébérac• Tristan Simonart | <ul style="list-style-type: none">Zurich Water Supply (CH)University of Alberta (CA)Technical University Riga (LV)Veolia Environnement Recherche et Innovation (FR)IWW Water Centre (DE)National Institute of Advanced Industrial Science and Technology (JP)Health Protection Agency (UK)École Polytechnique de Montréal (CA)World Health OrganisationVeolia Water (FR)European Commission DG ENTR (EU) |
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Other Information

Exhibition and Sponsorship Opportunities

This is a high visibility opportunity to bring your product or service to the attention of the complete spectrum of policy-makers, opinion-formers, and buyers in a growing market. Limited exhibition space is available, so early booking is recommended. Exhibitors may opt to participate in the Exhibition Quiz and to deliver a two-minute presentation to the conference audience. Sponsors may choose an item from a list of options offered.

Conference Dinner and Accommodation

The conference dinner will be held at the Municipal Hall in Muelheim in der Ruhr on Tuesday, 20th November, and attendance at the dinner is included in the registration fees. The Muelheim Water Award will be presented at the dinner. Bedrooms have been held at a number of local hotels for delegates to book direct. See our website for options available.

Venue and Travel

Muelheim an der Ruhr is easily accessible by air, rail and car. The nearest airport is Düsseldorf (170 worldwide destinations), just 30 minutes from Muelheim by frequent trains. Full travel information may be found on the website.

Sponsors

The Organising Committee would like to thank the organisations listed below who have already confirmed their support of this conference.



Additional sponsorship opportunities are available.

Organising Committee

Joep Appels, Jean-Claude Block (SecurEau), Ulrich Borchers (Co-chair of Organising Committee), Maggi Churchouse (Secretariat), John Farmer (Treasurer), John Gray, Bill Keevil (Co-chair of Organising Committee), Wolfgang Podewils, Paul Pollmann, K Clive Thompson (Secretary, and Co-chair of Programme Committee), Joep van den Broeke (Co-chair of Programme Committee)

Registration and Contact

To register, please visit our website
Maggi Churchouse, Conference Secretariat, Maggi Churchouse Events, 3 East Barn, Market Weston Road, Theltham, Diss IP22 1JJ, UK, telephone and fax +44 (0)1359 221004, maggi@wcec5.eu

www.WCEC5.eu

Final announcement and Programme



WCEC5 co-organised with SecurEau



Water Contamination Emergencies Conference: Managing the Threats

19th-21st November 2012

IWW Water Centre,
Muelheim an der Ruhr,
Germany

Principal sponsors



www.WCEC5.eu



Introduction and Programme

Introduction

The fifth conference follows on from four successful international Water Contamination Emergencies conferences: Can we cope? (2003), Enhancing our response (2005), Collective responsibility (2008), Monitoring, understanding, acting (2010).

Programme Topics

- Specific topics that will be addressed, and for which papers are invited are:
- Risk analysis, assessment, perception and communication
 - Risk perception and communication (and the role of social media)
 - Crisis management – examples and case studies
 - (Micro)biological, chemical and radioactivity contamination events – examples and case studies
 - Chemical contamination events – examples and case studies
 - Radioactivity and associated contamination risks
 - Remediation technologies for drinking water supply systems, including biofilms and deposits
 - Training methodologies for risk management
 - Models and scenarios for contamination of distribution networks
 - Cyber security
 - Use of leading edge technologies for water safety management
 - Sensors - integrated sensor networks, generic versus specific sensors
 - Generic versus specific sensors

The organising committee reserves the right to change this programme without notice.

Programme - Monday, 19th November

- 11:30

Registration, refreshments
- 13:00

Introduction and welcome

Ulrich Borchers, IWW Water Centre, and Bill Keevil, Southampton University
- 13:00

Welcome on behalf of the host

Wolf Merkel, IWW Water Centre
- 13:10

Welcome on behalf of the RSC-WSF and the SCI

John Gray, RSC Water Science Forum

K Clive Thompson, ALcontrol Laboratories (on behalf of the SCI)
- 13:15

Session 1: Scene Setting and Background
- 13:15

Managing the threats - approaches, examples and solutions in German water supply

Wolf Merkel, IWW Water Centre
- 13:45

Smart sensors network for water quality monitoring - a way to re-invent water supply management?

Cyrille Lemoine, Veolia Environnement Recherche et Innovation
- 14:15

Refreshments
- 14:45

Session 2: How do we Assess and Manage the Risks?
- 14:45

The future EC R&D funding and future legislation in the field of security- related research

Tristan Simonart, EU COM DG ENTR
- 15:15

Consequences of the Japanese earthquake 2011 and the Fukushima power plant accident on the Japanese water environment including drinking water

Akira Miyazaki (and Nobuyoshi Yamashita), National Institute of Advanced Industrial Science and Technology
- 15:45

A web-based early warning system for water treatment plants safety

Franclin Foping, University College Cork
- 16:05

Risk governance and the Board: supporting pervasive risk management in water utilities

Richard Allan, Cranfield University, Scottish Water Horizons
- 16:25

Questions, discussions
- 16:35

Relevant harmonised tools for risk assessment and crisis management - an overview on current standards on drinking water

Thomas Zenz, DVGW, the German Technical and Scientific Association of Gas and Water
- 16:55

Using a hydraulic model for planning your response to a contamination event

Kenneth Thompson, CH2M HILL
- 17:15

Questions, discussions
- 17:25

Introduction to the exhibition; two-minute presentations by exhibitors
- 17:55

Poster session, exhibition and refreshments
- 18:30

Close

Programme - Tuesday, 20th November

- 09:00

Session 3: Real Life Examples
- 09:00

Crisis management: operating and technical answer from Veolia (a case study)

Philippe Sébérac, Veolia Water
- 09:30

Recurring drinking water outbreaks - what operators need to understand to convert hindsight into foresight

Steve Hrudey, University of Alberta
- 10:00

[Technological Advances session starts - see below]
- 10:00

Water quality crisis at Przedsiębiorstwo Wodociągów i Kanalizacji

Marek Przytułski, Water Supply and Wastewater Collection Co Ltd
- 10:20

Spatial integration of sensors and other data streams provides real-time system knowledge for operations

Kenneth Thompson, CH2M HILL
- 10:30

Refreshments
- 11:00

The use of jug filtration to reduce radioactive and chemical contamination in drinking water

Derek Hammond, Health Protection Agency
- 11:30

Trichloroethylene (TCE) and tetrachloroethylene (PCE) contaminated groundwater in the area of a municipal waterworks: the contamination event, numerical modelling and mitigative measures

Ewa Kret, AGH University of Science and Technology
- 11:50

[Technological Advances session ends - see below]
- 11:50

The integration of online flow cytometry to the flexible risk assessment system (HACCP) at Zurich Water Supply

Jakob Helbing, Zurich Water Supply
- 12:10

Questions, discussions
- 12:30

Lunch
- 10:00

Transfer between buildings
- 10:10

Session 4: Technological Advances (optional parallel session)
- 10:20

A novel, low cost, spectrophotometer probe for multi-parameter in-pipe online water quality measurements

Florian Edthofer, scan Messtechnik GmbH
- 10:25

Early warning systems for rapid detection of deliberate intrusion

Marie Maurel, Veolia Environnement Recherche et Innovation
- 10:40

Questions, discussions
- 10:50

LC-QTOF/MS in combination with multivariate statistical methods for general unknown screening (GUS)

Wolfgang Schulz, Zweckverband Landeswasserversorgung
- 11:05

Monitoring of pipe wall deposits in drinking water distribution systems

Martin Strathmann, IWW Water Centre
- 11:20

Best practice protocols for response and recovery operations in contaminated water systems

Jana Fattic, Center for Water Resource Studies, Western Kentucky University
- 11:35

Questions, discussions
- 11:40

Transfer between buildings
- 13:45

Session 5: Lessons Learnt
- 13:45

Health impacts of water shortages in extreme events and other issues

Virginia Murray, Health Protection Agency
- 14:15

Public health risk of microbial intrusion events in distribution systems

Michèle Prévost, Ecole Polytechnique de Montréal
- 14:35

What are the real implications on Public Health of water contamination events?

Margaret McGuinness, Scottish Water
- 14:55

Protecting the drinking water supply against CBRN threats - the STATuS-project

Marcel Riegel, DVGW - Technologiezentrum Wasser (TZW)
- 15:15

10 x three-minute presentations by selected poster authors
- 15:45

Poster session, exhibition and refreshments, kindly sponsored by ENDETEC
- 16:15

Strengthening preparedness for public emergencies – a key priority for WHO

Gerald Rockenschaub, WHO
- 16:45

Preparing for emergency – a pilot project to develop contingency plans for cleaning of water distribution networks by flushing

Dirk Koenig, RZVN GmbH
- 17:05

Risk assessment for chemical spills in the River Rhine

Paul Eckert, Stadtwerke Duesseldorf
- 17:25

Questions, discussions
- 17:45

Close
- 19:00

Conference dinner at Muelheim Municipal Hall and Muelheim Water Award

kindly sponsored by RWE Aqua, Muelheim Water Award and ENDETEC

Programme - Wednesday, 21st November

- 09:00

Session 6: What can be done in future?
- 09:00

Decontamination of drinking water systems after deliberate attack: developments and challenges

Talis Juhna, Riga Technical University
- 09:30

Cybersecurity triage for small water utilities

Lon Dawson, Sandia National Laboratories
- 09:50

Using smart grid technologies to protect human health in water distribution systems

Graham Symmonds, Global Water Resources
- 10:10

Development and use of a decision support system for the response to contamination events

Ben Tangena, RIVM
- 10:30

Questions, discussions
- 10:45

Refreshments
- 11:15

Poster prize-giving

Torsten Schmidt, University Duisburg-Essen
- 11:25

Session 7: Conclusion, Wash-up, Round-table Discussion
- 11:25

Summaries on Sessions 2 to 5
- 12:05

Round table discussion

Facilitators: Bill Keevil, Southampton University, and Jean-Claude Block, University of Lorraine
- 13:00

Lunch
- 13:45

Optional tour of the RWW Water Treatment Plant "Styrum-West" for 1.5 hours
- 14:00

Session 8: SecurEau Security Workshop (security clearance required - see website)
- 14:00

The significance of the internal surface of mains pipes in drinking water distribution networks

Hans-Curt Flemming, Talis Juhna, Luis Melo, Jean-Claude Block
- 14:30

Contamination source and spread issues

Luis Melo, Olivier Piller, Fernando Martins, Talis Juhna, Diogo Costa
- 15:00

Limitations of remediation techniques for decontaminating drinking water networks

Talis Juhna, Gabriela Schaule, Ilkka Miettinen, Luis M Madeira, Tuukka Turtiainen
- 15:30

How to balance CAPEX/OPEX against safety, costs and time constraints

Cyrille Lemoine, Veolia Environnement, Recherche et Innovation
- 16:00

Final summing up

Bill Keevil, Jean-Claude Block, Fanny Buvens, Arnaud David, Sylvain Fass, Hans-Curt Flemming, Talis Juhna, Luis Melo, Ilkka Miettinen, Albin Monsorez, Olivier Piller, Tuukka Turtiainen
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