

Workshop

**Innovative Practical Risk Assessment & Prevention of
Microbiological Problems in Anthropogenic Water Systems:
*Application of the newest methods monitoring of Legionella, in
water installations***

October, 17th 2008

Organized by Aqua-tools
At Edegem (Belgium)

AIM OF THE WORKSHOP

The aim of this workshop is to present the **latest information available on monitoring water** quality issues in **sanitary and cooling water systems**, related specifically to ***Legionellae*** proliferation.

The presentations have been chosen to give a **practical approach for monitoring** for bacterial proliferation in sanitary, industrial or cooling tower water.

The workshop will give a clear view on the **new generation of quantitative ATP assays** for monitoring **microbial contamination** and **biofouling** in water installations, specifically for **decreasing *Legionella* proliferation**.

As prevention/sanitation technology in anthropogenic water systems, the **ecodis technology** will be introduced for **water disinfection without the addition of chemicals**. The merit of the ecodis technology will be demonstrated by different practical examples.

Field applied **methodology for bacterial risk assessment** will be presented through different **case studies**.

INVITED SPEAKERS

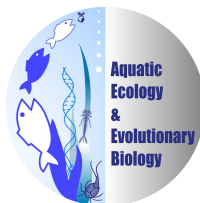
Dr. Priscilla DECLERK – Laboratory of Aquatic Microbiology, University of Leuven

Harmen DEKKER – Ecodis

Ludo FEYEN- Derva Laboratory

Véliana TODOROVA – Aqua-tools

Marc RAYMOND – Aqua-tools



LOCATION

Best Western Hotel Ter Elst

Tel Elststraat 310

B-2650 Edegem

(Near to Antwerp)

Belgium

PROGRAM OF THE WORKSHOP

MORNING SESSION: Background on microbiological problems in anthropogenic water systems and detection of associated microbiota

9h30 - 10h00: Coffee and registration

10h00 – 10h10: Opening of the conference (M. Ludo Feyen – Derva Laboratory)

10h10 – 11h00: Microbiological problems and risk factors for maintaining water quality in buildings (Véliana Todorova - aqua-tools)

- Update on incidence Legionellosis
- Emerging potential problems with Pseudomonas Legionella
- Review of risk factors for growth in water systems
- Emerging problems in maintaining with water systems in large buildings particularly hospitals and hotels.

11h00 – 11h45: Detection and monitoring methods for microbiota (Dr Priscilla Declerck, Laboratory of Aquatic Microbiology, University of Leuven),

- Association legionella – amoebae - biofilm
- Overview of different detection methods (culture, real-time PCR, ...): pro's & con's
- Detection of Legionella
- Detection of amoebae
- Problems with culture – Viable But Non-Culturable (VNBC) bacteria

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11h45 – 12h15: Introduction to the use of quantitative ATP for monitoring microbiological quality of water (Marc Raymond - aqua-tools)

- Fundamentals of ATP assays
- Description of quantitative ATP assays
- Potential advantages and disadvantages

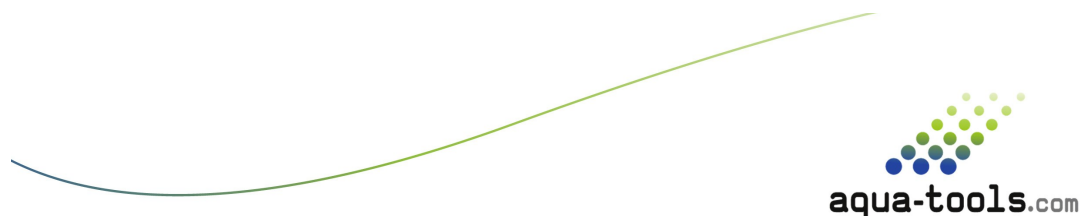
11h40 – 12h00: WHO framework for safe water and water safety plans

12h30- 13h30: Lunch

AFTERNOON SESSION: Risk Assessment, Sanitation/Prevention of microbiological contamination

13h30 – 14h30: New water disinfection technology in anthropogenic water systems without the addition of chemicals' (Harmen Dekker, Ecodis NL)

- Introduction to ecodis technology
- Case study: application of ecodis in **sanitary water** for Legionella control



- Case study: application of ecodis in **process water** for general microbial sanitation

14h30- 15h00: Risk assessment methodology for sanitary & cooling tower installations

(Véliana Todorova, Aqua-tools)

- Methodology for Risk Assessment : Generality
- Methodology for **Risk Assesement dedicated for Legionella**
- **Implementing Corrective Security Barriers** to avoid Legionella proliferation

15h00 – 16h00: Practical experience of use of a new generation of Quantitative ATP assays for monitoring water quality (Marc Raymond, Aqua-tools)

Case studies presenting the use of the method for monitoring treatment regimes in domestic water systems and cooling towers

- Monitoring of sanitary risks in large buildings particularly **hospitals** and **hotels**
- Management of **Legionella risks** in **cooling towers** and **cooling circuits**

16h- 16h15: General Discussion and Question and Answer session

Closing of the conference

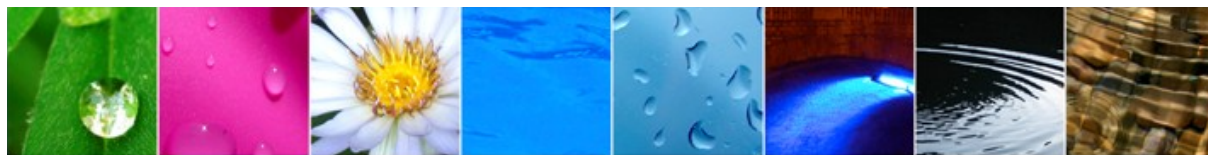
PRACTICAL INFORMATION

CONTACT DETAILS:

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e-mail : laila.caufourier@aqua-tools.com

PARTICIPATION FEE :

100 € per attendee
advance registration required



REGISTRATION FORM

Please confirm your participation

*By completing this form and send it by fax to + 33.1 30 95 54 55
For the attention of Laïla CAUFQUIER – AQUA-TOOLS – tel +33.1 30 95 79 50*

WORKSHOP October, 17th 2008

Practical Risk Assessment & Prevention of Microbiological Problems in Anthropogenic Water systems: application of the newest methods for monitoring of Legionella, in water installations

Fist Name – Last Name

COMPANY / INSTITUTION :

Activity :

Department and/or Title :

Address :

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Country : VAT # for Invoice.....

Tel. :Fax :

E-mail :

Will be attending the workshop : Yes NO

REGISTRATION FEE : 100 €

PAYMENT DETAILS :

Bank transfer: for the attention of **aqua-tools.com** other: cash at registration on October 17 th

Bank: BNP PARIBAS :

IBAN FR76 3000 4008 5200 0102 0891 419

BIC : BNPAFRPPMNT

Cancellation of participation will be accepted only until 6th of October, after this date, registration fees can't be reimbursed. A receipt will be sent by post at address above upon payment.