2nd INNOVATION SYMPOSIUM
WATER & HEALTH

Water Use in Public Buildings
Focus on security, prevention, and treatment for Legionella, pseudomonas and enterobacteria

Organized by aqua-tools (France)

DECEMBER 8 & 9, 2016

Maison de l’Amérique Latine
217 boulevard Saint-Germain, 75007 Paris
Solférino or Rue du Bac

FREE REGISTRATION – SPACES ARE LIMITED

KEYWORDS
- Legionella pneumophila
- Pseudomonas aeruginosa
- Enterobacteria
- Prevention, treatment and design of water supply systems
- Innovation - Point-of-use filters
- FILT’RAY® – Risk reduction waterborne pathogens
- Comparison of different approaches implemented in France, Europe, and the United States
- Publication of new recommendations
- Round table

Scientific committee
- Mrs Nathalie Armand
- Prof. Philippe Hartemann
- Prof. Jean louis Roubaty
- Dr Fabien Squinazi
- Jacques Naitychia
PARTICIPATING TECHNICAL EXPERTS AND INTERNATIONAL SCIENTISTS

→ **Professor Philippe Hartemann** (Luxembourg)
  - Professor Emeritus, Université de Lorraine, Director of the Luxembourg National Health Laboratory (Laboratoire National de la Santé Luxembourg)

→ **Jacques Naitychia** (France)
  - Clinical engineer – Former head of risk management for water supply systems for the general management of the Assistance Publique des Hôpitaux de Paris

→ **Doctor Fabien Squinazi** (France)
  - Former director of the Health Laboratory for the City of Paris (Laboratoire d’Hygiène de la Ville de Paris)
  - Member of the High Council for public health

→ **Fabrice Leteneur** (France)
  - President of SYPRODEAU - Professional organization for manufacturers and users of chemical products designed for water treatment

→ **Professor Jean-Louis Roubaty** (France)
  - Professor of environmental engineering (honorary)/University Paris Diderot Paris 7 - Paris

→ **Doctor Alberto Lo Curto** (France)
  - Technical and Scientific Director – aqua-tools

→ **Stéphanie Coudrais & Doctor Pierre Cassier** (France)
  - Hospices Civils de Lyon
  - Biohygiene expert – Department of Hygiene and Epidemiology - Centre Hospitalier Lyon Sud and Hôpital Croix-Rousse
  - Biologist – Hospital Practitioner – Laboratory of Environmental Biology and Safety – Hospital hygiene

→ **Doctor Stefano Melada** (Italy)
  - R&D manager Sanipur Italy
  - Vice président & technical Director Sanipur USA

→ **Doctor Janet E. Stout** (USA)
  - Research Associate Professor
  - Microbiologist and Director – Special Pathogens Laboratory
  - University of Pittsburgh Swanson School of Engineering, Department of Civil and Environmental Engineering

→ **Walker JT** (UK)
  - Scientific Leader for Water and Decontamination, Biosafety, Air and Water Microbiology Group, Public Health England, National Infection Service Salisbury

→ **Xavier Bertrand** (France)
  - Hospital Safety Service – Besançon University Hospital (CHU de Besançon)

→ **Professor Martin Exner** (Germany)
  - Institute for Hygiene and Public Health
  - University of Bonn

→ **Doctor Arnaud Florentin** (France)
  - University Hospital Physician – Vandoeuvre-lès-Nancy

SIMULTANEOUS FRENCH / ENGLISH INTERPRETATION
INTRODUCTION

Preventing waterborne health risks represents a significant challenge in buildings that are open to the public (Établissements Recevant du Public, ERP), especially when it comes to frail individuals who are more susceptible to certain potentially pathogenic microorganisms – including *Legionella*, which can proliferate in hot water supply networks, *Pseudomonas aeruginosa*, or *enterobacteria*, some of which have developed resistance to antibiotics. In addition, healthcare establishments and medico-social establishments closely monitor the microbial quality of their water supplies, particularly because, since 2001, the head of the establishment is legally responsible for ensuring compliance with legislation.

Published in 2005 by the Board of Hospitalization and Healthcare Provision (Direction de Hospitalisation et de l’Offre de Soins, DHOS) and the Board of Health (Direction Générale des Soins, DGS), the technical guide for water used in healthcare establishments is, today, the primary reference used to help prevent waterborne risks in healthcare establishments. Nevertheless, it may be time to reevaluate these guidelines in light of technical and technological progress and recent advances in scientific knowledge.

Initiated by the French company *Aqua-Tools*, which specializes in water safety, the goal of the “Water use in public buildings” Symposium is to compare different approaches implemented in France, Europe, and the United States and to thereby deliver useful information. It will also provide the opportunity, over two half days, to take an innovative look at ways to prevent waterborne health risks together with recognized experts whose expertise and experience will help to develop new recommendations, through a technical scientific note that will be presented at the end of the proceedings.

Members of the French Society for Hospital Safety, hospital pharmacists, water treatment specialists, public building users, and companies belonging to the British Legionella Control Association (LCA) are cordially invited to take part in developing the new recommendations.
10:30 am – Welcome

11:00-11:30 am – Professor Philippe Hartemann
  > Professor Emeritus, Université de Lorraine, Director of the Luxembourg National Health Laboratory (Laboratoire National de la Santé Luxembourg)
  The epidemiology of Legionnaire’s Disease: development in France and Europe in 2015
  Description of Pseudomonas Infections associated with care

11:30-12:00 am – Jacques Naitychia
  > Clinical engineer – Former head of risk management for water supply systems for the general management of the Assistance Publique des Hôpitaux de Paris
  Technical design guide
  Good design of water supply system: an essential tool for preventing and combatting Legionella and Pseudomonas
  DTU - production - networks – terminal elements.

12:30-1:00 pm – Doctor Fabien Squinazi
  > Former director of the Health Laboratory for the City of Paris (Laboratoire d’hygiène de la Ville de Paris)
  > Member of the High Council for public health
  “Biofilms in water supply systems: a microbial reservoir”

BUFFET LUNCH

1:45-2:15 pm – Fabrice Leteneur
  > President of SYPRODEAU – Professional organization for manufacturers and users of chemical products designed for water treatment
  Treatments for and prevention of Legionella and other pathogens
2:15-2:45 pm – Professor Jean-Louis Roubaty
Professor of environmental engineering (honorary)/Université Paris Diderot Paris 7 - Paris

**Aerosols and health risks**
How to manage risks when designing installations and equipment likely to generate aerosols

2:45-3:15 pm – Doctor Alberto Lo Curto
Technical and Scientific Director – aqua-tools

**Innovations in terminal filters**
FILT’RAY<sup>2G</sup> showerhead, faucet and in-line Point-of-Use filters
Characteristics of FILT’RAY<sup>2G</sup> 31 & 62 days against all microorganisms and 3 & 4 months anti-Legionella filters

3:15-3:45 pm – Stephanie Coudrais & Doctor Pierre Cassier
Hospices Civils de Lyon

- Biohygiene expert – Department of Hygiene and Epidemiology - Centre Hospitalier Lyon Sud and Hôpital Croix-Rousse
- Biologist – Hospital Practitioner – Laboratory of Environmental Biology and Safety – Hospital Hygiene

**Evaluation of FILT’RAY<sup>2G</sup> Point-of-Use filter performance**
Study of FILT’RAY<sup>2G</sup> - reducing risk of water borne pathogens- showerhead and tap filters for 31 and 62 days and anti-Legionella filters for 3 and 4 months

3:45-4:15 pm – Doctor Stefano Melada
R&D manager Sanipur Italy

- Vice président & technical Director Sanipur USA

**Monochloramine for water hygiene**
The iron fist in the velvet glove

**SHORT BREAK**

4:30-6:00 pm – Doctor Janet E. Stout
Research Associate Professor

- Microbiologist and Director - Special Pathogens Laboratory
- University of Pittsburgh Swanson School of Engineering, Department of Civil and Environmental Engineering

**Ending Legionnaires’ Disease: From Philly to Flint and Beyond**
In the 40 years since the historic outbreak of Legionnaires’ disease in Philadelphia, Legionella continues to make headlines. Since the first US Legionella guideline in the 1990s to the first Legionella standard and implementation for the first regulations one thing is clear: a proactive approach to prevention is a must.

Learn more about
1) the fundamentals of Legionella, including common myths, and new insights and science;
2) Legionella in the built environment
3) new secondary disinfection options and pros and cons of these technologies;
4) impact of poor water quality in community water systems; and
5) ASHRAE Legionella standard and New York regulations
6) elements of the only validated model for prevention.

6:00-6:30 pm – Round Table

**EVENING COCKTAILS**
8:00 am – Welcome

8:30-9:15 am – JT Walker
  → Scientific Leader for Water and Decontamination, Biosafety, Air and Water Microbiology Group, Public Health England, National Infection Service – Salisbury UK

Safe water in healthcare premises - why is Pseudomonas aeruginosa such a problem

9:15-10:00 am – Xavier Bertrand
  → Hospital Safety Service – Besançon University Hospital (CHU de Besançon)

Epidemiology of Pseudomonas aeruginosa infections in hospitals

10:00-10:45 am – Professor Martin Exner
  → Institute for Hygiene and Public Health - University of Bonn

Enterobacterial antibiotic resistance in water supply systems

10:45-11:15 am – Marc Raymond
  → Aqua-tools

Representativeness and relevance of analysis tools for legionella risk management ; application sanitary and cooling system water
Advantages/limits of cultures, qPCR, ATP 2G

11:15-11:45 am – Doctor Arnaud Florentin
  → University Hospital Physician – Vandoeuvre-lès-Nancy

Microbial control of dental unit water

11:45-12:15 pm – Doctor Arnaud Florentin
  → University Hospital Physician – Vandoeuvre-lès-Nancy

Biological audit of a water network using an ATPmetry 2G-based rapid microbiological analysis kit to measure the total flora
Applications – Legionella & Total flora

12:15-1:00 pm – Round Table / Discussion / Closing remarks

LUNCH BREAK
REGISTRATION FORM

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Please FAX this form to: 33 (0) 1 39 75 08 28 or send via email to contact@aqua-tools.com

Last name:

First name:

Company:

Title:

Telephone:

E-Mail:

Street address:

Post code/zip code:

City:

Registration will be confirmed at a later date based on availability
FILT’RAY 2G
POINT-OF-USE-FILTER
Disposable water filters

QUICK LEGIONELLA & PSEUDOMONAS CONTROL

Provide barrier against microorganisms
Extended life up 3 and 4 months
Patented technology self cleaning membrane Bubl’air Wash

SINGLE USE
4 MONTHS
SINGLE USE
62 DAYS
SINGLE USE
3 MONTHS
SINGLE USE
31 DAYS

TECHNOLOGICAL INNOVATION

Unparalleled performance
- UltraResistant (UR) membrane
- High flow rate
- 3 x larger microfiltration surface area

Attractive design
Ecological footprint
Shower Filters - No adapters

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