



H&V News Indoor Air Quality & Water Safety conference 14 – 15 September, Villa Park, Birmingham

Building on the decade-long success of its Combating Legionella and Water Treatment conference, H&V News brings you a wider discussion on the challenges that engineers and estates managers currently face maintaining & complying with regulation within public and private buildings.

This year the conference will connect you to all aspects of best practice regarding indoor air quality (IAQ) in addition to the ongoing challenges in compliance, prevention and treatment of Legionella and other waterborne pathogens.

Same community, more reasons to attend

- ✓ Bringing together the same audience of engineers, estates, building and health and safety managers
- ✓ Covering the wider challenges with air quality and water safety that building managers currently face
- ✓ Incorporating the latest updates and best practice on preventing and controlling Legionella and other waterborne pathogens building on the 13-year success of the dedicated H&V News event
- ✓ Hosted by H&V News, the leading publication for the HVAC sector, we bring our agenda-setting coverage of indoor air quality and water safety issues live to the conference debate

Programme 2017

Day 1, 14 September	
09:30	Morning refreshments
10:00	Chair's opening welcome Adding air quality to water safety Andrew Gaved , Editor, H&V News
10:10	<i>Presentation</i> Why Healthy Air Should be High on your Agenda: New Priorities on Improving Indoor Air Quality (IAQ) and Reviewing your Building Safety Assessment

- A building performance review – what to look for in your building?
Exploring existing building guidelines vs. newer build guidelines for safer and more efficient facilities. Latest policy and practice initiatives
- Improving hydro-thermal performance with Hygrothermal modelling -
Investigating the dangers of interstitial condensation and what you can do to predict/monitor these?

Colin Timmins, H&V Portfolio Manager, BEAMA

10:30

Presentation

Building Manager Perspective: Tackling the IAQ & Water challenges

- A residential case study explores implementing HVAC and surrounding issues of indoor air quality
-

Paul White, Housing Development Manager, Enfield Borough Council (TBC)

Presentation

- Commercial build case study

11:00

Networking refreshments break

11:30

Presentation

BESA's call for new Clean Air Act: How it affects estates managers & making IAQ part of the commercial planning process

- 'How do we make buildings safe havens from pollution? IAQ in action'

Giuseppe Borgese, Vice President at BESA & chair of the Indoor Air Quality group

12:00

Talk show

Indoor Air Quality Summit: The Next Generation of Ventilation

The best approaches to maintaining (IAQ) and ventilation hygiene: strategy, technology, benchmarks, what's supposed to come out of air-conditioners vs reality, sick building syndrome investigations, correct HVAC operation and maintenance. What needs to be done to embed better IAQ and what are the obstacles to progress?

13:00

Networking lunch and exhibition viewing break

14:15

Panel discussion

How to prevent HVAC and Water Hygiene Problems being Designed into Buildings from Day One: 360 Degree View

Exploring issues from structures resultant from the original design: lessons learned and implementing them into future design

Steve Vaughan, Regional Director - Public Health Engineering, AECOM

Steve Hall, *Senior Engineering Manager Engineering Services Unit Design & Implementation, Hampshire County Council*

Stewart Crowe, *Health, Safety and Risk Manager, University of Liverpool*

14:40

Panel discussion (with presentations)

Testing and Sampling: Air and Water Quality

Identifying and quantifying pollutants (e.g. volatile organic compounds (VOCs), gases and particles), their sources, health risks and the action required, dealing with odour problems, assessing materials' emissions, the risks of vapour intrusion from contaminated land, radon, ventilation, damp and combustion products.

Presentation

An Indoor air quality assessment - measuring and monitoring of indoor air quality (IAQ)

Kathryn Woolley, *Senior Air Quality Consultant, SHL Consultants*

15:10

Presentation (title tbc)

Heloísa Fonseca, *Radiation Protection Scientist, Public Health England*

15:30

Presentation

Water Quality Events Affecting Peoples Public Health (practical session - the taste test)

Paul Straw, *Inspector, Yorkshire Water*

16:00

Panel discussion (with presentations)

Climate Adaptation Projects: Adapting Buildings for Indoor Air Quality and Water Safety in a Changing Climate

Preparing for weatherisation and ventilation challenges of the future in this session we shall hear lessons learned and developing guidance for health protection, including mitigation and adaptation responses for the future for the built environment

- Ventilation and fire risk - **BS: 9999 (2017) Fire safety code of practice for fire damper installation and maintenance**

Paul Downing, *Technical consultant, Building Engineering Services Association (BESA)*

- Understanding the effects of climate change on IAQ (indoor air quality)
- How does **Legionella** respond to climate change: will this be an essential development for managing risks in water systems?

16:30

Networking refreshments break

17:00

Presentation (tbc)

17:15

Chair's Day 1 wrap up

17:30 – 19:00

Awards ceremony

Combating Legionella and Water Treatment Awards 2017

H&V News Combating Legionella and Water Treatment Awards brings to the fore the unsung heroes of the water hygiene industry and sheds some light on some of the most innovative and successful projects on Legionella, Pseudomonas and other waterborne bacteria prevention, control and treatment. Five awards will be given to the lucky winners across the following categories: Best Legionella Management Plan, Product of the Year: Chemical Solution and Engineering Solution, Supplier of the Year, Lifetime Achievement. Ceremony will be followed by a drinks reception.

Day 2, 15 September

9:45

Morning refreshments

10:00

Chair's introduction to Day 2

Andrew Gaved, Editor, H&V News

10:05

Panel discussion (with presentations)

The Long Term Vision for the Water Sector: Water Challenges Facing the Cities and Industries of Tomorrow

Emerging challenges facing the water sector and their implications for estate managers including: Water Value and Efficiency, collaborative and transformative adaptation in a changing environment, governance and smart water innovations.

Rafid Alkhaddir, *Head of the Department, Civil Engineering & Professor, Water and Environmental Engineering (CIWEM)*

10:25

presentation

The Water Supply (Water Fittings) Regulations 1999 Play an Integral Role in Protecting Public Health, Safeguarding Water Supplies and Promoting the Efficient use of Water within Customers' Premises

- Legal obligations regards owners designers and installers
- Why we as an industry require the use of only water safe plumbers?

Marcus O Ceafarcaigh, Water Regulation's Inspector, Yorkshire Water

10:45 *Panel discussion (with presentations)*

Successful Prevention for Healthcare Estates: Planning Ahead & Improving on Water/Air Compliance

In this session we will explore what still needs to be done for hospitals still not meeting the required compliance standards: paying attention to the details including the following:

- Increasing performance and management of hospital PFI contracts
- What keeps hospital managers awake at night? How to comply and demonstrate you are fit for purpose
- Infection Prevention Control (IPC)
- HVAC system barriers & risks associated
- Hospital Water and opportunities for infection prevention

Stuart Watkin, Head of Engineering Compliance & Energy, North Tees & Hartlepool NHS Foundation Trust

Dr Elaine Cloutman-Green FRCPATH FHEA, Infection prevention & control Practitioner, NIHR Clinical Lecturer, Infection Prevention and Control Honorary Lecturer, Department of Civil, Environmental and Geomatic Engineering, UCL, Great Ormond Street Hospital, NHSC

Blanca Beato, Senior Engineer & Team Lead, Asset Performance The Building Services Research and Information Association (BSRIA)

11:30 Networking refreshments break

12:00 *Spotlight presentations*

New Developments in Water Hygiene Compliance and Practice on Legionella and other Waterborne Bacteria across Sectors

Assessing the effect of different and newly emerging control measures for **Legionella** prevention in e.g. plumbing systems in hospitals and hotels, spa-pools, wet cooling towers and aeration ponds

12:15 *presentation*

Increasing Knowledge of Micro-pollutants & Challenges Including Pharmaceuticals and Micro Plastics

12:30 *presentation*

Emerging Technologies for Detection of *Legionella pneumophila* in Water Systems'

Dr. Brett Brewin, R&D Scientist, IDEXX

12:45

Presentation

The Outbreak in Council Property in Barrow-in-Furness: What Would Prosecution Look Like Today?

Looking back at the fatal Legionnaires' disease outbreak in Barrow-in-Furness in 2002, Greg will review the major evidence/facts at Barrow and what the new Corporate Manslaughter and sentencing guidelines now say. He will have the audience then judge what the outcome would have been. This session will dispel some of the myths around the case and use more recent examples for future direction.

Greg Davies, *Director of Market Development, Assurity Consulting*

13:05

Networking lunch

14:15

Presentation

Safety Assessment: Are you Sitting Comfortably?

Following the Grenfell tower situation this presentation explores what still needs to be done

Nick Hill, *AE Engineer, Water Quality London*

14:35

Presentation

Water Efficiency in the UK: Sustainability Vs. Public Health. How to Make sure that Water Efficiency Objectives Don't Compromise Public Health

Julie Spinks, *Managing Director, WRAS Ltd*

14:55

Presentation

Compliance Under a Limited Budget: Building the Optimal Maintenance Strategy

Exploring O&M staffing, budgets, current and future priorities, preventive vs predictive maintenance, tracking and documentation, and details on O&M practice for electrical energy-using systems including HVAC and water control systems.

- Comparing the pros and cons of the various approaches to maintenance, with a particular emphasis on using software to leverage data. Approaching some of the issues that building owners/operators should consider when choosing a vendor to provide the components of a smart maintenance system

15:15

Afternoon Refreshments

15:45

presentation

Søren Papendick Johansen, Sales manager, **Danish Clean Water**

16:05

Challenge

Grouped into a circle of 6-10, you and your peers will have to solve a challenge on indoor air quality and water safety

16:30

presentation

Training the Future Workforce: Managing Contractors

Carrie Wood, Head of Health and Occupational Safety, Ashfords LLP

16:55

Chair's closing remarks

17:05

Close of conference

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