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SMi Group presents its 2nd annual conference on...

SMART WATER SYSTEMS

Copthorne Tara Hotel, London, UK

8 - 9
MAY
2013

WHY ATTEND THIS EVENT:

Learn how to improve your water system across the whole cycle from the very inception of ideas to how to deal with waste water including:

- **Discover** future plans for innovation from the brains behind the water industry
- **Be informed** on new water regulation both here in the UK and in Europe
- **Hear** detailed case studies from water companies around the world about their business case for smart metering
- **Study** the issues involved in data management and how to solve these through stabilisation
- **Find out** about the future of smart water, joint ventures between different utilities and future technologies
- **Meet** industry experts, technology and solution vendors, consultants, researchers, utilities and wholesalers, network operators

KEY SPEAKERS INCLUDE:

- Anne McIntosh, Chairman, Environment, Food and Rural Affairs Select Committee
- Nick Kamen, Head of Energy and Utilities, Vodafone Global Enterprise
- Rob Scarrott, Strategic Water Planning Manager, Thames Water
- Lars Thiesson, Technical director, Division of Water, Waste Water & Renewables, HOFOR Greater Copenhagen Utility
- Paul Glass, Metering Manager, Anglian Water
- Olivier Pison, Project Manager Smart water and Energy, Suez Environment
- Carl-Emil Larsen, CEO, DANVA Danish Water and Wastewater Association
- Martin Perrin, Strategic Waste Planning Manager, Thames Water
- Penelope Moss, Project manager, Veolia Water
- Sarah Mukherjee, Director of Environment, Water UK

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PLUS AN INTERACTIVE HALF-DAY PRE-CONFERENCE WORKSHOP

Tuesday 7th May 2013, Copthorne Tara Hotel, London, UK

Water-Saving: Engineered Solutions

1.30 - 5.30pm

Workshop Leader: Richard Hurst, Proprietor, RAH Consultancy

www.smart-water-systems.com

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8.30 Registration and Coffee

9.00 Chairman's Opening Remarks
Frederick Harry Royan, Research Director, Global Environmental (Water) Markets, **Frost & Sullivan**

Thinking holistically about the water cycle: from inception of ideas

9.10 **Technologies for improving the redundancy, reliability and resilience of water supply systems**

- Reducing the size of DMAs has proven to be a successful leakage management technique but this has significantly affected the redundancy, reliability and resilience of water supply networks.
- The presentation demonstrates novel technologies to address these limitations and facilitate the implementation of smart water supply networks.
- Case study on near time operational system management of water network

Dr Ivan Stoianov, Professor, Department of Civil and Environmental Engineering, **Imperial College London**

Optimising smart water monitoring

9.50 **Smart management of drinking water networks**

- Non-revenue water and energy efficiency challenges in drinking water networks
- Techniques to optimize network performance and energy consumption
- Case study of leakage detection in the region of Paris
- Perspectives for further improvements

Olivier Pison, Project Manager Smart water and Energy, **Suez Environment**

10.30 Morning Coffee

11.00 **SmartWater – Using mobility to transform the water industry**

- Mobilising the workforce, improving the communication from the edge to the centre
- Customer satisfaction – changing the way we communicate with our customers
- Safety of people, processes and assets
- Asset management – Managing your assets more effectively
- Metering – The role of Smart meters in the water industry
- Real life case studies

Nick Kamen, Head of Energy and Utilities, **Vodafone Global Enterprise**

Marshalling data

11.40 **Marshalling data- smart water and data management**

- An overview of the Danish Water Sector – metering, prices and efficiency requirements.
- How to ensure cooperation in a fragmented water system
- DDV – shared data models to ensure cooperation and governance in standardization and digitization in the water companies
- Case study from HOFOR(former KE) Greater Copenhagen Utility: cooperation with other utilities with a focus on how data efficiency can contribute in meeting efficiency requirements

Carl-Emil Larsen, CEO, **DANVA Danish Water & Wastewater Association**
Lars Thiesson, Technical director, Division of Water, Waste Water & Renewables, **HOFOR Greater Copenhagen Utility**

Preserving our resources

12.20 **Cultivating a water-energy perspective for capital and operational decisions**

- The energy perspective of water supply systems – a comprehensive metric of efficiency and effectiveness
- Combined water and energy metrics
- The key components: water conservation, pressure management, and pump efficiency
- Dynamic mapping of operational systems – a Toronto case study

Dr Bryan Karney, Professor Civil Engineering, **University of Toronto**

12.50 **Networking Lunch**

2.00 **Panel session: Learning from each other- how can we benefit from comparing notes?**
Carl-Emil Larsen, CEO, **DANVA water association**
Lars Thiesson, Technical director, Division of Water, Waste Water & Renewables, **HOFOR Greater Copenhagen Utility**
Dr Bryan Karney, Professor Civil Engineering, **University of Toronto**
Dr Ivan Stoianov, Professor, Department of Civil and Environmental Engineering, **Imperial College London**
Panel session lead by **Sarah Mukherjee**, Director of Environment, **Water UK**

2.40 **Biggest energy savings from water are found in the home**

- 11% goes into pumping, transporting and treating, what about the other 89%?
- What actions can we take - the water companies, government and the individual?
- 'Smart' opportunities to save energy and water together in the home
- Big picture customer engagement for their own energy and water saving answer

Andrew Tucker, Water Strategy Manager, **Energy Saving Trust**

3.20 **Afternoon Tea**

The end of the water cycle

4.00 **The end of the water cycle: Waste water - addressing the issues**

- The challenges facing sewerage – can we be smarter at managing the system?
- Real-time monitoring and control – Thames Water's approach
- Understanding the potential for sustainable drainage

Martin Perrin, Strategic Waste Planning Manager, **Thames Water**

4.40 **Future water networks and related opportunities in the global smart grid market**

- Challenges of the global water industry and the resulting opportunity for smart water solutions.
- Process and operational efficiency improvement drivers for smart water solutions
- Illustrate the Landscape of the Global Smart Water Market and its individual segments - market opportunities and the regional hot-spots
- Emerging opportunities in the wastewater network
- Transforming competitive landscape and Innovative business models

Frederick Harry Royan, Research Director, Global Environment (Water) Markets, **Frost & Sullivan**

5.20 **Chair's closing remarks**

5.30 **Close of Day One**

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8.30 Re-registration and Coffee

9.00 Chair's Opening Remarks:
Trevor Bishop, Head of Water Resource, Environment Agency

The end-user impact: the business case for smart metering

9.10 **Is smart metering worth it? - The business case for smart metering**

- Why look at Smart Metering - what are the drivers?
- Performance of smart metering - lessons learnt and conclusions drawn from recent trials in the Thames Water area
- The benefits of using smart meters - the short and long-term view
- Integrating smart meters into the whole system operation

Rob Scarrott, Strategic Water Planning Manager, Thames Water

9.50 **Lessons learned from the implementation of a fixed radio network solution for AMR**

- Exploring the multiple benefits of fixed network AMR solutions
- Overcoming stakeholder opposition
- The challenges presented by AMR installation programmes
- What are the key lessons learned and how transferrable are they?

Penelope Moss, Project Manager, Veolia Water

10.30 Morning Coffee

Regulatory overview

11.10 **Draft water bill - market reforms lead to greater innovation and energy saving practices**

- Proposed market reforms in sewerage/waste-management and the opening of the market up to new players
- Redefining the value of water through pricing variations
- The importance of customer-facing initiatives to promote sustainability
- Promoting the value of water amongst the public
- Sustainability drives, making all practices reflect sustainable methods

Anne McIntosh, Chairman, Environment, Food and Rural Affairs Select Committee

11.50 **The future of water and adapting systems accordingly**

- The changing face of water management due to future pressures such as growth and climate change
- What will water infrastructure management look like in 2050 and how do we get there
- The importance of resilience and what level of resilience is appropriate under future uncertainties
- Water governance- balancing access and allocation of this precious resource

Trevor Bishop, Head of Water Resources, Environment Agency

12.30 Networking Lunch

The customer view-point and opinions on metering

2.00 **Getting the backing of the public- understanding your customer's viewpoint**

- Consumers' views of the water industry in England and Wales
- Droughts, Floods and Leakage - a difficult year for the water industry!
- Saving water, saving money - is this really a priority of your average water user?
- What, aside from a lower bill, could be used to encourage customers to use less water?

Deryck Hall, Head of Policy and Research, Consumer Council for Water

2.40 **AMR: Anglian Water's Water Displays**

- Overview of the Water Display and its benefits
- The reasons behind the trialling of these meters
- Collecting useful results: how the success of it is measured
- The outcomes so far and what we expect to see

Paul Glass, Metering Manager, Anglian Water

3.20 Afternoon Tea

4.00 **The importance of end to end interoperability of smart metering systems**

- Focus on business process execution
- Enable the insight on consumptions
- Accurate determination of losses
- Get closer to real time business execution

Miguel Gaspar Silva, Coordinator of Business System Integration and Interoperability ESMIG; Industry Director, SAP

Looking to the future: the issue of water re-use

4.40 **Making the most of the water we have: Water re-use research project**

- Catchment of the water source
- What treatment is appropriate
- Negotiating the costs by explaining the benefits of the treatment
- Preparing for the future- where water re-use strategy might go?

Dr Siobhan O'Neill, Asset Strategy and Standards Manager, Thames Water

5.20 Chair's closing remarks

5.30 Close of conference

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WATER DESALINATION REPORT



Water-saving: engineered solutions

In association with
RAH Consultancy

Workshop Leader:
Richard Hurst, Proprietor, RAH Consultancy

Overview of workshop:

In today's world water-preservation has become a priority on every business' agenda and therefore SMI Group's Water-saving: engineered solutions will look into the solutions available to ensure water is not being wasted. We will be looking at regulations across the board both in terms of G3 Building regulation and the Water label. There will be an opportunity to look to the future of water saving to prepare for the ever-changing agenda of the water industry.

SMI Group proudly presents its "Water-saving: engineered solutions" workshop:

- **Hear** about new Building Regulation in that will affect you and your company
- **Investigate** the transliteration of the Water label into the Eco label and how they overlap
- **Discuss** the important issues with industry leaders about the future of the water industry and not only water-saving solutions but energy saving water practices

Workshop Agenda:

- 1.30 Registration & Coffee
- 2.00 Welcome & Introductions
- 2.10 The early attempts at water saving solutions, the consequences of the revised Building Regulations Approved Document Part G for new dwellings.
- 2.50 Water saving – U.K. Water label and the EU Ecolabel: The British manufacturers voluntary response to water-saving. The U.K. pioneers the European equivalent.
- 3.50 Morning Coffee
- 4.10 The way forward – the possibilities for the home improvement market, grey water, solar power, water and energy saving – education of the consumer via the mercantile and manufacturing communities.
- 5.00 Discussion session
- 5.30 Close of Workshop

About the workshop host:

Richard Hurst, Proprietor, RAH Consultancy

I was originally a Marine Engineer and after 14 years with the Merchant Marine I resigned and then worked primarily on the construction of overseas power stations and in other engineering works.

In 1989 I commenced employment with the Water Research Centre (WRC) as an Engineer. By 1999 I was employed as a Contracts Manager by WRC-NSF and was increasingly involved in consultancy with regard to the design of water fittings and water systems and was regularly consulted as an expert witness in water related issues.

I have regularly been involved on behalf of the water industry on various National and European Standard Committees including attending European Working Groups of Technical Committees of the European Standards Organisation

I am now a self-employed expert on Water related projects, and I am in addition a Fellow of the Chartered Institute of Plumbing and Heating Engineers.

About the organisation:

RAH Consultancy is operating in those areas of water engineering consultancy with which Richard Hurst became familiar in his previous career. This includes

- Advising on Water Fittings and Systems design and installation, to ensure compliance with British and other Water Regulations.
- Acting as an Expert in Water Technology issues, Consultancy on the design of water related products, water systems and Installation, Commissioning and Maintenance of such systems.

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MAY

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Dynamic Pricing**

24th - 25th June 2013

SMART WATER SYSTEMS

Conference: Wednesday 8th May & Thursday 9th May 2013, Copthorne Tara Hotel, London, UK Workshop: Tuesday 7th May 2013, London

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