

# FUTURE WATER NETWORKS 2018

*Using Tomorrow's  
Technology to help Manage  
Yesterday's Infrastructure*

3rd & 4th December 2018

Chesford Grange Hotel, Kenilworth,  
Warwickshire, CV8 2LD

Endorsed by



Paul Horton,  
Chief Executive Officer,  
Future Water Association

## Future Water Networks as an annual event is pushing the boundaries of our thinking and setting out the possibilities for managing water and wastewater networks.

2018 sees the event focus on *'Using tomorrow's technology to help Manage yesterday's infrastructure'*. This is critical as the sector heads into a new AMP period and looks beyond; critical as the sector manages ageing infrastructure and legacy monitoring systems and critical as new technology helps to bring new insights into network management.

Across England & Wales alone, there are over 340,000 km of water mains and over 620,000 km of sewer and drain systems. These underground assets are essential to a sustainable future as we head into new investment periods. In addition to the existing challenges of climate, urbanisation and development, there will be a drive to reduce leakage by at least 15% and a focus on reducing sewer flooding.

What is required is a 'smart' approach – one driven by data, new technology and approaching the management of networks infrastructure as a system. The application of Artificial Intelligence along with more value being placed on data and analytics, producing actionable information, is a key factor in bringing the performance of networks up to current standards, whilst allowing for future impacts.

Future Water Networks 2018 opens with a session of Water Dragons, with pitches from a wide range of companies to a panel of judges – the focus is innovation in networks and it is great to see so many companies involved. In the evening we will also hear from industry keynote speaker, Ronan Palmer, Director of Strategy & Planning at Ofwat, who will outline OFWAT's view of the innovation landscape.

The conference on the 4th December, which I am delighted to see, brings together a range of speakers from a number of water companies, regulators, research organisations, and the supply chain, along with bodies such as the National Infrastructure Commission. This event is about collaboration, engagement and challenging current thinking.

I am delighted to welcome you all to this event and thank you for your participation and support.

# FUTURE WATER NETWORKS 2018

*Using Tomorrow's Technology to help  
Manage Yesterday's Infrastructure*

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## Programme

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### Monday 3rd December Water Dragons Heat

12:00pm – Registration & Exhibition area open



1:00pm – 5:30pm – Water Dragons Heat  
Presentations from:

- APEM
- Caswick Ltd
- ECO-WMT
- EnginSoft Uk Ltd
- Flexim Instruments UK
- Gill Sensors & Controls
  - Grundfos
- Hydraulic Analysis Ltd
  - HWM Water
- Royal HaskoningDHV / Aquasuite
  - Wheatley Solutions

Judging the presentations will be representatives from Arup, Energy & Utility Skills, Ofwat, Severn Trent Water, and Future Water Association's Innovation Hub.

*The winner of the Water Dragons Heat will be announced at the dinner*

*Water Dragons is sponsored by:*



7:15pm – Pre Dinner Drinks Reception (including Exhibition) – The Grange Bar

*Drinks Reception is sponsored by:*



8:00pm – Dinner with Guest Speaker – Ronan Palmer, **Ofwat**

## **Tuesday 4th December - Future Water Networks 2018**

### **“Using Tomorrow’s Technology to help manage Yesterday’s Infrastructure”**

**8:30am - 9:30am - Registration**

**9:30am - Welcome by morning Chair: Wayne Earpe, Severn Trent Water**

**9:40am Keynote Addresses:**

- Ross Simpson, Thames Water - ‘data driving business’ - open data well
- Richard Khaldi, PA Consulting - Innovation in Regulation driving change in asset management
- Tony Harrington, Dŵr Cymru - 21 st Century Drainage project - new thinking for sewer management

**10:40am - 11:15am - Refreshments & Exhibition**

**11:15am - Session 2: Water supply**

- Manuela Di Mauro, National Infrastructure Commission - Preparing for a drier future
  - Katy Walker, Yorkshire Water - 15% leakage - challenges for the water industry
- Martin Wood, Wessex Water - AI in action Wessex Water Grid system with Optimiser

**12:15pm - 1:30pm - Lunch & Exhibition**

**1:30pm - Welcome by afternoon Chair: Dene Marshallsay, Artesia Consulting**

**1:40pm - Session 3: Water use, research and data**

- Carmen Snowdon, WRc - Per Capita Consumption, how low should we go and how should we get there?
- Anne Lorrigan, Kamstrup - Increasing the potential benefits of smart water networks
  - Steve Kaye, UKWIR - Moving forward, sharing data and research

**2:40pm - 3:00pm - Comfort Break**

**3:00pm - Session 4: Wastewater systems**

- Ben Draycott, Lanes Group & Stephen Pattenden, Thames Water - Using data to manage wastewater networks
- David Fortune, Innovyze - Integrating technology into decision making process
  - Peter Henley, WRc - Energy from Sewer Networks

**4:00pm - Conference summing up and next steps**

**4:15pm - Chairman’s summary and Conference close**



# Water Dragons Entrants

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## APEM - Aerial Surveys to Map Pipe Leakage

APEM's aerial surveys use high resolution near-infrared digital cameras and thermal cameras to identify the routes of buried pipes and find potential leaks in underground pipe networks, quickly and cost-effectively across large areas. We estimate an 80% saving compared to surveying a large catchment by traditional, ground-based methods.



## Caswick Ltd - Caswick Manhole Riser Frame/ Caswick manhole Security Grating

Falls into manholes are a worldwide problem, often resulting in serious injury or death. Caswick will introduce two innovations that help to prevent falls (a) into manholes during construction and (b) into existing manholes. This pitch will be of interest to all drainage system designers, installers, asset owners and maintenance operators.



## Eco-WMT - Effective Leak Detection

Water companies are under increasing pressure to reduce leakage, with AMP7 set to deliver 15% reduction minimum across the sector. Eco IoT has developed a unique tool utilising a freely inserted object into clean water networks, we measure various parameters and, use differential analysis & advanced AI learning algorithms to detect (and report via Google Earth mapping) leaks to an accuracy of 10cm..



## EnginSoft - StrategicGIANT

The strategicGIANT (Growth Impact AssessmentNT) Solution developed by EnginSoft UK to help water companies meet the challenges of urban development under the new regulatory requirements imposed by OFWAT.

For Water Companies that must understand the impact of growth to develop strategic growth plans with an efficient investment profile and confidently invest in time-sensitive catchment plans, learn about strategicGIANT today.



## Flexim Instruments UK - Cost Effective, Easy to install, Reliable Flow Measurement in Wastewater

FLEXIM – innovative, class-leading permanent clamp-on flow metering, assisting water companies to meet their PR19 performance promises:

- 36% decrease in supply interruptions – install FLEXIM on water or wastewater pipelines with zero supply interruption
- 16% leakage reduction – you can't manage if you don't measure; robust, accurate and repeatable metering installed more quickly and at lower cost



## Gill Sensors & Controls - 7014 Wastewater Sensor

The GILL 7014 Sewer Sensor uses innovative conductive technology to address many of the issues associated with traditional ultrasonic and float sensors, specifically false alerts caused by condensation and foaming. The sensor has a non-stick surface area eliminating the risk of 'ragging' or blockages making it ideal for measuring continuous flows across sewer networks including assets on treatment works and manholes adjacent to properties on the DG5 register.





# Water Dragons Entrants

## Grundfos - BACMON – Real time bacteria monitoring

Rapid detection in concentration of bacteria is critical to managing pollution incidents. Grundfos have developed a novel, optical, on-line bacteria sensor with 10-minute time resolution. The sensor is based on 3D image recognition; pictures are analysed with algorithms considering 59 image parameters. The sensor counts suspended particles and classifies them as bacteria or abiotic particles.



## Hydraulic Analysis Ltd - Rising Main Asset Health Check and Real-Time Burst Detection

Hydraulic Analysis Limited (HAL) have developed and launched a Pipeline Condition Monitor (PCM) which is installed in sewage pumping stations and is aimed at rapidly detecting pump and rising main failures. HAL measure, monitor and act on the data for Water Companies to improve the health of their assets. This is resulting in a significant reduction in the frequency of rising main bursts and also pollution events.



## HWM-Water - Spill Guard

An innovative spill alert system for mass deployment in the waste water networks. HWM have developed a cost effective and reliable monitoring solution which can be installed across the entire network. Compatible with a range of sensors which offer both state and trend data, it is particularly well suited to applications which involve small diameter sewage pipes or shallow inspection chambers.



## Royal HaskoningDHV - Aquasuite FLOW and PURE – AI Optimisation of Wastewater

Aquasuite is a proven machine learning AI platform able to monitor, analyse, control and optimise the entire man-made water cycle; with modules for drinking water abstraction and distribution, leakage, wastewater transport and treatment, and for biosolids processing. Aquasuite FLOW Intake & PURE, presented for the Dragons event, focus specifically on improving wastewater transport & treatment efficiency by using AI to predict flows & loads throughout the catchment.



## Wheatley Solutions – PinPoint

An app service developed in collaboration with Bristol Water to provide Retailers with supply point information in the field even if the user is offline. Once they have located the supply pipe using the tools within app a user can then validate and capture information, including photos, to improve the quality of market data. Wheatley believe Pinpoint brings real value to the market and plans to add further services to the app to make Pinpoint an indispensable asset tool for Retailers and Wholesalers.





## Speakers

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**Ronan Palmer**  
Director, Strategy and Planning, Ofwat

Ronan Palmer is a Director, Strategy & Planning, at Ofwat. Prior to joining Ofwat in November 2015 he was Chief Economist to the Environment Agency. Previously he had been a regulatory economist for the newly privatised National Grid Company from 1991 and worked in the UK's Department of Environment on water privatisation and policy appraisal. He has a degree in Philosophy and Economics from University College Dublin.



**Wayne Earpe**  
Chief Data Officer, Severn Trent Water

Wayne is the Chief Data Officer for Severn Trent. His career spans over 30 years in the water industry, 10 years spent in the non-regulated arm of Severn Trent as Managing Director establishing and growing businesses in the UK and Ireland. Wayne is a chartered civil engineer and environmentalist and holds an MBA from Warwick University.



**Richard Khaldi**  
Director, PA Consulting

Having started his career as a lawyer, Richard is now a water and regulation expert working in PA's global Energy and Utilities practice. Prior to PA, Richard spent a decade in the economic regulation of the UK water sector, including over 3 years as an Executive Director on the Board of Ofwat. Richard has been directly involved in all the major changes the UK water sector has gone through in the last decade including: retail business competition in Scotland; the Water Act 2014; PR14; and the opening of the business retail market in England and Wales.



## Speakers

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Tony Harrington  
Director of Environment, Dŵr Cymru Welsh Water

Tony has developed his expertise and interest in environmental matters through leading a number of multi-disciplinary teams in support of a variety of projects in the oil and gas exploration; civil engineering; water services industries; and from within Government.

He is both a Chartered Engineer and Chartered Scientist, and a Fellow at the Chartered Institute of Water and Environmental Management, at the Institution of Civil Engineers, and at the Learned Society of Wales.

In December 2011, Tony took up his role of Director of Environment at DCWW, where he leads the Environmental, Innovation, and Science agendas for the business with the objective of providing a safe and sustainable environment for DCWW customers, one which they are proud to hand to future generations.. Tony has a number of research oriented Board appointments including that at the UK Water Industry Research Forum (UKWIR). Tony also leads the UK Water Sector's 'Delivering 21st Century Drainage for our customers' work programme.



Manuela Di Mauro  
Water Lead, National Infrastructure Commission

Dr Manuela Di Mauro is the author of the recent report *Preparing for a Drier Future* and the relevant chapter of the UK's first National Infrastructure Assessment, published in July 2018, and leads the Commission's work on water supply resilience.

Dr Di Mauro is an environmental engineer specialised in developing solutions for managing climate and geological risks such as those posed by floods and drought. She holds a PhD on the topic, and has worked in consultancy, academia, international organisations and government.

Before joining the NIC, Manuela led the policy analysis on spatial planning, flood risk, water efficiency and emergency management for the Adaptation Sub Committee of the Committee on Climate Change. She previously led the development of a Global Risk Model at the United Nations, designed options to manage geological risks in Indonesia for the Earth Observatory of Singapore and developed solutions for managing flood risk for the engineering consultancy HR Wallingford.



## Speakers

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Katy Walker,  
Water Network, Leakage & Metering Strategy Manager,  
Yorkshire Water

Katy has benefited from over 25 years experience in the water industry and seen it through the eyes of a supplier and water companies. Since her MSc in Hydraulic Engineering, she has carried out almost every role on the water network from strategy development, asset management, repair and maintenance contract management, customer and operations management, leakage and pressure management, project management and network technical roles. She has recently been instrumental in developing Yorkshire Water's plans to reduce leakage by 40% over the next 7 years.



Martin Wood  
Design Manager, Water Supply Grid Scheme, Wessex Water

Martin has over 30 years experience in water treatment design and supply networks in the UK and overseas including the technical lead on major supply infrastructure projects.



Dene Marshallsay  
Director, Artesia

A Chartered Physicist, Dene has over 27 years' experience in the UK and international water industry. Dene is co-founder and Director of Artesia and a consultant specialising water resource management. He is an industry expert in the fields of demand management, water consumption, forecasting, leakage and water loss management; with experience in supply demand planning, policy development, regulation, smart metering and smart networks.

# Speakers

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Carmen Snowden  
Principle Consultant, WRc plc

Carmen Snowden, a Chartered Environmentalist, has been working in the field of demand management at WRc for over twelve years. She has developed and led a variety of projects and programmes looking at how, where and why people use water, as well as in the fields of water efficiency and leakage. Carmen has a very keen interest in integrating the customer into business processes and planning and has led projects looking at ways to evolve the relationship between water company and customer and recently completed a secondment to Waterwise as their Head of Water Efficiency and Customer Participation.



Anne Lorrigan  
Product Manager, Kamstrup

Anne Lorrigan is a Product Manager working in the Water Division at Kamstrup, a smart metering solutions company based in Denmark. Her work focuses on delivering new smart water network technology to the market. She ensures new products benefit water utilities through enabling better transparency across the distribution network and improving efficiency of water supply operations.

Anne worked previously in Water Resources Management, at Melbourne Water in Australia. She has a masters of environmental engineering from The University of Melbourne.



## Speakers

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**Steve Kaye**  
CEO, UK Water Industry Research (UKWIR)

Steve is a Chartered Mechanical Engineer and has worked in the water industry for around twenty eight years.

Steve's career in water started in the manufacturing industry where he was responsible for the development and design of water related products. At Anglian Water Steve has held key roles in Engineering, Operations and Innovation. He has helped develop Anglian Water's Open Innovation Strategy, including successful initiatives like the Water Innovation Network (WIN) and the Innovation Shop Window.

Steve is a creative individual who is passionate about making a better world through research and innovation. He has always been actively involved in fostering collaborations between different organisations and industrial sectors.

Steve is now CEO of UKWIR, an organisation that delivers research to meet the challenges of the UK water industry.



**Ben Draycott**  
Lanes Group

Ben joined Lanes in 2015. Having spent considerable time in the waste water industry working on contracts including TFL, Network Rail, The MOD, and NHS, he is now responsible for delivering the business's planned maintenance programme and high-risk activities which includes London's network of Trunk Sewers. His diversity and attention to detail ensures a focus on providing exemplar customer service to Thames Water's 15 million waste water customers.

## Speakers

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Stephen Pattenden  
Thames Water

Stephen joined Thames Water in 2011. Having spent time in water networks, water resources, business regulatory planning and pollution prevention, he is now responsible for performance and risk management across wastewater networks and pumping. He also oversees optimisation functions and the delivery of maintenance and cleansing activity across 108,000km (67,000 miles) of sewer network and c2800 pumping stations.



David Fortune  
Vice President of Innovation, Innovyze

David leads product strategy for water management software systems. These include real-time operations, asset management, and hydraulic modelling.

He has worked in Europe, the USA, India and China. He is a mathematician and software engineer, and has contributed to many water research projects.

David is a Chartered Member of the Institution of Water and Environmental Management (C.WEM MCIWEM) and Deputy Chair of the Open MI Association which promotes integrated environmental modelling.



Peter Henley  
Principal Consultant, WRc plc

Peter is currently a Principal Consultant at WRc and heads up its Pollution and Flooding team which specialise in sewerage operations and waste water issues. He has been in the wastewater industry for over 30 years starting out a contractor, and then for Wessex Water to manage the Private Sewers transfer before joining WRc in 2009. He has an extensive background in sewer flow surveys, CCTV inspection and sewer rehabilitation. He is currently working on projects aimed at reducing the number of sewer blockages and also reducing the impact of Fats Oils and Grease in our sewer network.

Outside of work he's a keen cyclist and a Bristol Bears rugby fan.



## Gold Sponsors



Artesia is a dynamic and forward-thinking consultancy based around data science serving water wholesalers, retailers, regulators, government and the supply chain.

Our mission is to deliver solutions through the application of technical excellence. We use a combination of our extensive industry knowledge and data science skills to develop leading edge solutions to some of the long-standing challenges in leakage management, water resources planning, water conservation, demand forecasting and asset management.

Providing bespoke policy advice through to implementable solutions, we take account of the environmental, economic, social and technological challenges faced by today's and tomorrow's water industry.

Artesia is a multi-disciplinary team with renowned experts in statistics, data science and key water industry areas. Working as a team, we bring a wide range of skills, knowledge, perspective, experience and personality to each project we undertake. We maximise the value of existing data, with a particular focus of providing technology agnostic solutions in our day to day business.

Our vision is to shape the way we manage water resources by always striving to deliver you the best, elegant solution.

For further information please visit [www.artesia-consulting.co.uk](http://www.artesia-consulting.co.uk)



RPS Environmental Management Limited is the leading provider of professional and field based support services to the Water Industry. It is a subsidiary company of the RPS Group and employs around 1200 staff.

With extensive experience and an enviable reputation, RPS has provided clean and wastewater support services since 1993.

RPS works together with all UK water companies and The Environment Agency to deliver cost efficient results through the strategic planning and management of water services. Our unique blend of office-based consultancy and field-services enable us to effectively support our clients through a unique "strategy with operations" approach.

Our services include:

- |                             |                             |                        |
|-----------------------------|-----------------------------|------------------------|
| - Water Networks Management | - Flow Meter Management     | - Sustainable Drainage |
| - Water Networks Operations | - Information Management    | - Water Efficiency     |
| - Wastewater Services       | - Sewer Networks Management | - Water Quality        |
| - Wastewater Modelling      | - Surveying                 | - Water Resources      |
| - Leakage Management        | - Asset Management          |                        |

For further information please visit [www.rpsgroup.com](http://www.rpsgroup.com)





## Silver Sponsors

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Diehl Metering is one of the world's largest specialist metering and data solutions providers, manufacturing across Europe.

We provide smart metering solutions to utilities companies through the intelligent networking of various metering devices into larger data platforms. These solutions offer transparency for utilities and enables considerably increased efficiency in reading, billing and service processes. Our customers are also able to benefit from real-time effects such as early recognition of leaks and the optimisation of distribution networks through intelligent information and real time data.

Diehl Metering supports utilities in the UK and across the globe, developing smart meter and IZAR data and software solutions along with providing end-to-end support, backed up by our dedicated UK technical team.

With Diehl Metering you are already perfectly equipped for smart metering as an important component of smart city concepts. Thanks to more than 20 years of experience with the company's own radio technology, Diehl Metering has at its disposal excellent expertise in communications within the IoT (Internet of Things). Moreover, security of our customer data has the highest priority.



Kamstrup is a world-leading supplier of energy and water metering solutions. Our solutions support utilities and are also applied in properties with individual metering.

For 70 years, we have delivered reliable, cost-effective ways to measure and manage energy and water consumption worldwide.

Our solutions include consumption meters, smart metering systems, hosting and services, analytics and smart grid applications.

At Kamstrup, we define our value by the progress we create for others.

We use our superior technology, deep customer understanding and industry vision to deliver more intelligent, reliable and cost effective ways to measure and manage the supply of energy and water.

Our innovation helps customers all over the world protect their reputation, develop more efficient ways of working, and identify new opportunities for future growth.

By anticipating our customers' challenges, we enable them to run a better business and inspire smarter, more responsible solutions for the communities they serve.

Think Forward

For further information please visit [www.kamstrup.com/en-en](http://www.kamstrup.com/en-en)



## Silver Sponsors

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Lanes Group plc has 23 strategically placed offices throughout the UK, providing wastewater and drainage services to a host of clients.

Covering a very diverse client portfolio, Lanes has built its reputation steadily over the past 21 years, no mean feat in the recent economic climate. Each regional centre can provide a comprehensive range of core services including jet/vacuumation, sludge waste management, interceptor maintenance, CCTV surveys and blockage clearance. Other drainage services such as CIPP patch lining and length lining, dye testing, excavation, root cutting are also available from each operating centre. The list of drainage services available is extensive.

## Drinks Reception Sponsor

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BOX Energi's mission is to specialise in the development of sustainable energy and related infrastructure projects globally.

There is an energy revolution occurring driven by the desire to utilise more sustainable, clean and socially acceptable forms of energy. This mindset is adopted by global industries, charities, small businesses alike and is driven by legislation and regulation from governments and international treaties and agreements. BOX Energi's vision is to be an internationally recognised global leader in the rapidly developing Decarbonisation, Decentralisation and Digitisation technology markets and a world class provider of related infrastructure as we enter a new world of energy generation, transmission and distribution.

## Endorsers

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British Water is an association which has a wide and varied membership covering all sectors of the water industry. From consultants, legal and financial partnerships, manufacturers of equipment and multi-disciplinary contractors to SMEs and independent consultants. We work to bring a coherent approach to delivering in partnership with the water companies, the best for the British water industry. We try to ensure each member company has access to services that will enhance their development potential and provide an added value factor to the way they do business.



CABWI is a nationally recognised Awarding Organisation specialising in the development and award of vocational qualifications for the water and utilities industries.

We offer a range of qualifications regulated by Ofqual in England, Qualifications Wales in Wales and CCEA in Northern Ireland, in clean and waste water, as well as water efficiency.

Our current portfolio includes competence-based and knowledge-based qualifications, designed, in consultation with industry specialists, to meet the needs of those working in the water and other industries, and related qualifications.

CABWI also awards Street Works and Street Works Reassessment qualifications under the New Roads and Street Works Act.

In support of the Water Process Technician Apprenticeship, CABWI is an approved End Point Assessment Organisation.



## Endorsers

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The Civil Engineering Contractors Association is the representative body for companies who work day-to-day to deliver, upgrade, and maintain the country's infrastructure.

With more than 300 members split across eight regions, CECA represents civil engineering contractors who build and maintain the UK's critical infrastructure networks in transport, energy, water, waste and communications.

Our members employ close to 250,000 people who deliver work worth around £15 billion every year which equates to an estimated 70-80% of key civil engineering activity in the UK

Through our nationwide network of autonomous regions, and our national office in the heart of Westminster, we speak up for the firms building and maintaining the UK's infrastructure networks.

We have extensive experience in the sector, and the connections to media, clients and government to ensure that our members benefit from the latest industry knowledge and government proposals, be they national, regional or local.

Contact: Alasdair Reisner, Chief Executive or Peter Crosland, National Civil Engineering Director on 0207 340 0450. Website [www.ceca.co.uk](http://www.ceca.co.uk)



Energy & Utility Skills is the specialist workforce resilience and skills body for the energy and utilities sector.

We provide membership, assurance and skills solutions to help employers attract, develop and retain a sustainable, skilled workforce to ensure the seamless delivery of essential services to 65 million people each day and UK Industry.

Our UK-wide membership is comprised of the major infrastructure companies within water, power, gas and waste management and their top tiers of delivery partners. Our membership brings leading companies together to collectively identify and address the unique workforce renewal and skills challenges the sector faces, while engaging governments, regulators and other senior stakeholders to help them develop an informed and supportive policy and regulatory environment.

To find out more information please visit [www.euskills.co.uk](http://www.euskills.co.uk)

# Endorsers

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With over 120,000 members in 140 countries, The Institution of Mechanical Engineers has been at the heart of the mechanical engineering profession since 1847. As the market leader among professional engineering bodies, the Institution works hard to support our global membership community and to implement our vision of improving the world through engineering.

The Institution is the largest network of mechanical engineering knowledge, skill and opportunity in the world. With an ever growing membership based outside the UK, it develops and maintains key partnerships with leading multi-national employers to ensure their technical workforces are trained to the highest standard. By equipping engineers with the right skills, knowledge and experience to help them develop, it contributes to strengthening the world's leading companies. It also encourages high profile education initiatives which inspire the next generation to work in engineering, and gets engineers featured in the global media and heard by government, providing thought leadership and ensuring that the views of engineers are well represented in the public domain.



## The World's Premier Water Leakage Summit Returns For Its 10th Year In June 2019

The 10th Global Leakage Summit is coming to London again on 25-26 June 2019, with pre-conference workshops on 24 June.

Join us to meet our line-up of world-class UK and international water utility speakers, who will share their experiences on how they are meeting their specific challenges of reducing leakage and satisfying demand - challenges of meeting regulatory targets and customer expectations in networks with ageing infrastructure and continual bursts, and with external pressures on the network caused by climate change, drought and natural disasters.

Sessions will include panel discussions on topical issues, case study results and examples of how latest technologies and concepts have evolved to meet the challenges of monitoring the network and prioritising areas for inspection - managing, and, more importantly, analysing and using, all the network sensor data available.

Some of the most topical questions to be addressed are:

- Can we ever achieve zero or near-zero leakage?
- Will blanket coverage of network sensors help to achieve this by reducing awareness time and leak run time?
- Can AI, machine learning, 5G and the IoT all be integrated effectively to create an 'integrated smart network' and allow better decision making?



## Endorsers

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The Pipeline Industries Guild was formed in 1957. Since then, it has evolved to be the only association world-wide to cater directly for the needs of the pipeline industry, regardless of engineering discipline, application, or qualification.

The Guild's membership comprises those with interests in pipelines world-wide, transporting hydrocarbon products, chemicals, water, wastewater, and many other substances, both on and offshore. All are governed by the industry's twin need to combine quality with safety, while at the same time meeting all the latest environmental and legislative requirements.

The Guild is the respected authority within all branches of the pipeline industry, and there are few pipeline engineering problems its members cannot solve. Part of its increasing and unique strength is the Guild's ability to attract members from all sides of the pipeline industry, whether they be concerned with deep-sea pipelines or with the latest developments on land in no-dig and minimal-disturbance pipe and duct-laying technology.

The Pipeline Industries Guild, has a clear vision of its future, in which it will broaden its pipeline-engineering interests and continue to cater for the ever-widening horizons of its expanding membership.

From the point of view of pipeline engineering in all its aspects, the Pipeline Industries Guild is the place where the disciplines meet, and where leading-edge technology is discussed, analysed and disseminated.

As well as its technical functions, the Guild members participate in a broad range of social activities, some of the most well-known of which are the yearly Branch Dinners and the Annual Dinner in London.



The Sensors for Water Interest Group (SWIG) is a not for profit, information, ideas-exchange, and networking group with a diverse UK-wide membership. SWIG focuses on the use of sensor and associated technologies for measurement and control in water and wastewater treatment processes and infrastructure, and in natural environments and waters.

Our networking activities include a varied programme of technical workshops covering all aspects of water sensing, which offer a cost-effective means of keeping up-to-date with sensor developments, new technologies and regulations. Invited speakers and enthusiastic audiences are able to debate issues of measurement and control in water and wastewater.



UKSTT is striving to be the leading voice in the field of Trenchless Technology, advancing the development of trenchless technologies through education, collaboration and promotion.

As UKSTT continues to grow and take on new challenges, it is important for our not-for-profit Society to serve and support our members. With this in mind, we are continuing on from the success of our bespoke Masterclasses and have arranged two full day seminars to take place during 2019. The first masterclass will be specific to Micro-Tunnelling & Pipe Jacking.

Being a member of the UKSTT gives your company access to a sizeable network of experienced professionals active in the field of trenchless technology, as well as providing potentially very lucrative business opportunities via our technical enquiry service, which can be found on our website [www.ukstt.org.uk](http://www.ukstt.org.uk)



## Media Partner

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WaterBriefing is the UK's leading online daily dedicated news, analysis and intelligence service for business professionals in the water sector covering both UK and international issues, including:

- Industry news – the top international, national and regional stories
- Company news – contract wins, clients, upcoming tenders and business opportunities
- Existing and upcoming legislation and policy updates – key drivers behind many of the sector's investment decisions

WaterBriefing's combination of insight and analysis of news, legislation and policy developments has made it a widely-read, influential and well-respected source of information. Waterbriefing is regularly invited to provide expert comment to the UK national media, including the BBC.

The WaterBriefing readership includes clients, contractors, water companies, NGOs, the investment community, MPs, regulators and Parliamentary Committees.

## Exhibitors

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# Future Water Association Awards 2018/19

When you're busy with the day to day tasks within your organisation it can be easy to take excellence and best practice for granted, especially when it comes to the achievements of your people.

Taking the time to recognise your successes by nominating your business for an award is a great way to generate PR as well as boost morale by recognising the achievements and talents within your company.

The 2018/19 Future Water Association Awards are now open, and we are inviting members to submit entries into the People and Emerging Talent categories.



## People Award

Sponsored by ACO Water Management



We all recognise that people are the mainstay of any successful company and their contribution to their own organisations and the wider industry needs to be recognised. Do you have individuals (or teams) that have 'gone that extra mile' outside of the normal requirements of their work? Perhaps someone who has established a particular process or best practice in the workplace, made an outstanding charitable achievement or body of work across the sector.



## Emerging Talent Award

Sponsored by ARUP

# ARUP

Can your company provide the winner of our first Emerging Talent award? Do you have a young person (age 30 or younger) new to your company (within the last five years), possibly an apprentice or graduate that has:

- Achieved beyond expectations by bringing something new to your company
- Demonstrated/shown leadership
- Has an interest in water and the environment

If you know someone within your company that meets the above criteria, then why not nominate them for the award?



Future  
Water  
Association  
Awards

Entry Forms and details on how to enter are available on our website:

[www.futurewaterassociation.com](http://www.futurewaterassociation.com)

Closing date for entries:

Friday 22nd February 2019

Winners will be announced and Awards will be presented at the Awards Luncheon event on Thursday 11th April 2019, at the Warwickshire Golf and Country Club, Leek Wootton.

## NOTES

# The future of water is changing and the Future Water Association is here to shape that future.

**“keeping you informed”**

Working together we develop business opportunities by creating collaborations and connections in a dynamic business environment. Our buyer partners tell us we are influencing their thinking, our supplier members tell us we are increasing their business and regulators value our opinion and discuss policies directly with us.

## Informing

We will strive to keep our members informed about opportunities, the regulators about challenges and Government about policy direction.

## Innovating

We will encourage and support innovation through Water Dragons and delivering the ‘Innovating the Future’ roadmap, where creativity has a route to market.

## Influencing

We will influence and inspire the supply chain to develop innovative solutions and new ways of thinking to shape the future of the water sector.

**“influencing strategy”**



**“unlocking innovation”**

Membership provides you with a cost effective way for you to be better connected, better informed and more empowered to win work, grow your business and network within the water sector.

**Play your part in the future by joining the Future Water Association today!**

Call us today on **01926 513774** or visit **[www.futurewaterassociation.com](http://www.futurewaterassociation.com)**



**Future Water Association**

**Informing, Innovating, Influencing**