

POSITIVELY INFLUENCING THE WATER SECTOR THROUGH RESEARCH & INNOVATION

UKWIR 4th Annual Conference

30th November 2023 - Hilton London Tower Bridge

I am excited to announce that UKWIR's fourth annual conference, to be held in London on 30th November in partnership with Spring, will explore the importance of research and innovation in addressing the water challenges of the 21st century. It will feature high-profile speakers from across water companies, regulators, the media and the supply chain.

UKWIR is committed to catalysing the collaborative energy flowing through the sector and positively influencing the water industry in the UK by encouraging new voices and ideas to refresh and challenge current thinking. By working closely with innovators, researchers, and the supply chain to develop new knowledge and innovative solutions, we can all play a key role in ensuring everyone can access safe, clean water and sanitation services and lessen our environmental impact.

Over the last year, UKWIR has breathed new life into several of our primary services. We have built bridges with critical organisations, instigated exciting research partnerships, and helped spark new ideas across the water sector. Supporting our ambition to provide open access to our research for members, collaborators, regulators, academics, and other vital stakeholders, over 1,000 of our research reports are now free to access online.

UKWIR's commitment to a collaborative approach to research has enabled us to make a real difference in the water industry. We're proud of our work's impact on the sector, and we're looking forward to continuing to drive positive change.

Conferences like this provide excellent opportunities for networking and collaboration and allow the sector to enhance innovation through sharing stories, resources, and expertise.

As you will see at the conference in November, UKWIR is committed to fostering this collaborative approach to research and innovation, and expert speakers and panellists will be on hand to help drive these vital discussions forward.

We hope our members and stakeholders will join us on the day. Together we can work to ensure a sustainable future for the water industry.

Thank you for your continued support.



Steve Kaye
CEO UKWIR

AGENDA

08:30 Registration & Networking

SETTING THE SCENE

- 09:15 **Conference Chair's Welcome**
Niki Roach, Honorary Vice President, CIWEM
Brandon Mayuga, Catchment Advisor, Affinity Water
- 09:20 **Welcome/Introduction**
Suvra Jans, Head of Media Relations, Thames Water & UKWIR board member
- 09:30 **Keynote Speaker: Water company perspective**
Colin Skellett, CEO, Wessex Water
- 09:45 **Key challenges and need for action**
Catherine Wenger, UKIMEA Water Business Leader, Arup
- 10:00 **Changing the narrative**
Karma Loveday, Founder and Editor, Water Report
- 10:15 **Panel Discussion**
Chair: Natasha Wiseman, Founder and Chief Executive, Make Water Famous
- Catherine Wenger, UKIMEA Water Business Leader, Arup
 - Karma Loveday, Founder and Editor, Water Report
 - Suvra Jans, Head of Media Relations, Thames Water & UKWIR board member
 - Colin Skellett, CEO, Wessex Water
 - Stuart Colville, Director of Policy, Water UK
- 10:35 **Morning break and networking**

THE ROLES OF UKWIR & SPRING

- 10:55 **The role of UKWIR**
Steve Kaye, CEO, UKWIR
- 11:10 **The role of Spring**
Carly Perry, Managing Director, Spring
- 11:25 **Q&A**
Chair: Niki Roach, Honorary Vice President, CIWEM
- Steve Kaye, CEO, UKWIR
 - Carly Perry, Managing Director, Spring

CREATING A BETTER WORLD FOR OUR CUSTOMERS

- 11:45 **Keynote Speaker**
Ian Cameron, Director of Customer Service & Innovation, UK Power Networks
- 12:00 **The water industry's role**
Pete Holland, Director of Customer & Wholesale Services, Anglian Water
- 12:15 **Panel Discussion - Engaging with customers**
Chair: Nicci Russell, CEO, Waterwise
- Ian Cameron, Director of Customer Service & Innovation, UK Power Networks
 - Rob Light, Chair, CCW
 - Ryan Shellard, Managing Director, Energy & Utilities, Sia Partners
 - Pete Holland, Director of Customer & Wholesale Services, Anglian Water
 - Mumin Islam, Head of Price Review, South Staffs Water and Cambridge Water
- 12:35 **Lunch & Networking**

AGENDA CONTINUED

STRATEGIC PARTNER OPPORTUNITIES

- 13:35 **Research partnership: KWR Perspective**
Mariëlle van der Zouwen, Deputy Director and Management Team, KWR Water Research Institute
- 13:50 **Opportunities for strategic partners**
Christian Inglis, Head of Urban Systems, Innovate UK
- 14:05 **Panel Discussion**
Chair: Keiran Brocklebank, Head of Innovation, United Utilities
- Chris Jones, Research & Development Manager, Northumbrian Water Group
 - Eric Collins, CEO and Founding Member, Impact X Capital Partners LLP
 - Christian Inglis, Head of Urban Systems, Innovate UK
 - David Butler, Co-Director, Centre for Water Systems, University of Exeter
 - Mariëlle van der Zouwen, Deputy Director and Management Team, KWR Water Research Institute

TACKLING OUR BIGGEST CHALLENGES

- 14:25 **Keynote Speaker**
Helen Wakeham, Director of Water Transformation, Environment Agency
- 14:40 **The route to net zero - research perspective**
Dan Green, Carbon Programme Lead, UKWIR & Head of Sustainability and Innovation, Wessex Water
- 14:55 **Panel Discussion - Taking a holistic approach and changing the narrative**
Chair: Sally Watson, Technical Excellence & Digital Lead, Water & Environment, Mott MacDonald
- David Riley, Head of Carbon Neutrality, Anglian Water
 - Nick Mills, Zero Uncontrolled Discharges Programme Lead, UKWIR and Head of Clean Rivers & Seas Taskforce, Southern Water
 - Jon Rathjen, Deputy Director, Water Policy & DECC (Directorate for Energy & Climate Change) Scottish Government
 - Helen Wakeham, Director of Water Transformation, Environment Agency
 - Prof. Ian Barker, Vice President Environment, Institute of Water
- 15:15 **Afternoon Break & Networking**

DIGITAL TRANSFORMATION

- 15:35 **Embracing the digital world**
Paul O'Callaghan, Founder/CEO, BlueTech Research
- 15:50 **Panel Discussion - A digital future; what does it mean?**
Chair: Thomas Bridgewater, Head of Strategic Asset Management & Innovation, Affinity Water & UKWIR board member
- Lewis Richards, Account Technology Strategist, Microsoft
 - Melissa Tallack, Head of Intelligence & Analytics, Northumbrian Water Group
 - Paul O'Callaghan, Founder/CEO, BlueTech Research
 - Wez Little, Segment Lead WWW UK&EI, Schneider Electric
 - Kieran Murnane, Water Resources & Flooding Global Practice ECP, Mott MacDonald
- 16:10 **Event wrap up**
Niki Roach, Honorary Vice President, CIWEM
Steve Kaye, CEO, UKWIR

PhD POSTER PRESENTATIONS

Transient and steady state signal processing for acoustic leak detection
Ndubuisi Uchendu, University of Southampton

Pipe wave modelling for acoustic leak detection
Adila Nalisa Mohd Roslan, University of Southampton

Signal processing for distributed acoustic sensing
Joshua Hooper, University of Southampton

Leak-2-burst: leak noise characterisation
Shahab Khodayari, University of Southampton

Achieving biologically stable / low AOC water in the UK
Isabel Carneiro Cardosa Da Silva, University of Sheffield

Achieving Net-Zero – Hydrogen as a key factor for energy resilience and emission reduction for the UK water sector
Ravina Bains, Cranfield University

Controlling water chemistry to improve drinking water quality and minimising disinfection by-products
Polly Grundy, Cranfield University

Drinking water distribution systems water quality big data analytics
Killian Gleeson, University of Sheffield

Eliminating greenhouse gas emissions from wastewater treatment
Dimitris A. Athanasopoulos-Tseles, Cranfield University

Managing biofilms and disinfection residuals to protect drinking water safety
Jade Rogers, Cranfield University

Multi-scale water resources planning in England & Wales
Ali Leonard, Newcastle University

Promoting high quality and multifunctional green infrastructure
Alethea Goddard, Newcastle University

Quantification of wastewater treatment resilience metrics
Anna Laino, Newcastle University

The insidious impact of transients on leakage
Thomas Langshaw, University of Sheffield

Understanding Domestic Water Use Behaviour
Harry Niklin, Cranfield University

Understanding how the deterioration of cast iron pipes evolves into leakage
Edward John, University of Sheffield

Understanding the role of nitrogen in the formation of nitrogenous disinfection by-products in drinking water treatment systems
Anna Kamau, Cranfield University

Biological routes to the removal of pesticides and other organic
Miles Folkes, Cranfield University

The future of hydraulic water network design to manage discolouration risk
Reinar Lokk, University of Sheffield

Microstructural influence on corrosion performance of legacy cast iron mains water pipe
Luke Ronayne, University of Southampton

Quantifying somatic coliphages from UK drinking water treatment works
Suniti Singh, Cranfield University

**BOOK
YOUR
PLACE**

FREE ATTENDANCE for UK & Ireland water utilities who are UKWIR members

Register Online: www.aquaenviro.co.uk

Enquiries - email: events@aquaenviro.co.uk or tel: 01924 257891