

## Global Webinar: Best Practice and Innovation in Water Sensing

23<sup>rd</sup> April 2024

\*\*All times listed in BST\*\*

### Welcome

**09:30** Arrival and sponsor exhibition

**10:00** **Andy Nichols** (SWIG & The University of Sheffield): Chair's welcome

### Session 1: Exploring Frontiers in Water Sensing on a Global Landscape

**10:15** **Abi Croutear-Foy** (AquaWatch, New Zealand): *Streams Of Synergy: Water At The Convergence Of Industry, Community, And Environment*

**10:30** **John Okedi** (UCT, South Africa): *Navigating Challenges Of Sparse Information In Developing Countries To Unveil Environmental Secrets With IoT, Sensors And Models*

**10:45** **Carlos Tejedor** (Idrica, Spain): *IoT Sensing. How Connectivity Is Changing Strategic Relationships In The Water Sector*

**11:00** Panel 1 Q&A

**11:25** Intermission and sponsor exhibition

### Session 2: Empowering Communities and Authorities with Sensor Technology

**11:45** **Ed Clayton** (University of Auckland, New Zealand): *A Water Clarity Sensor For Citizen Science: Is An Altruistic Low-Cost Sensor Achievable?*

**12:00** **Anna Whittaker** (bNovate Technologies, UK): *Safe Water In Any Weather. How Automation Improves Groundwater Monitoring.*

**12:15** **Jyoti Gautam** (NSUT, India), **Amlan Chakrabati** (University of Calcutta, India) & **Victor Lorente** (Idrica, Spain): *Harnessing AI, Analytics, And Digital Twins For Next-Generation Water Management*

**12:30** **Magdi Nabi** (Rhames, UK): *Design And Deployment Of Dissolved Oxygen Remote Monitoring And Control For The Environmental Agency Using IoT*

**12:45** Panel 2 Q&A

**13:10** Intermission and sponsor exhibition

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### Session 3: Practical Applications of Water Monitoring Innovations

- 13:30 Peter Zhang** (University of Macau, Macau SAR): *Assessing The Algal Population Dynamics Using Multiple Machine Learning Approaches: Application To Macao Reservoirs*
- 13:45 Alijah Mohd Aris** (Indah Water Konsortium, Malaysia): *Performance Of Biosensor Probe For Wastewater Monitoring*
- 14:00 Jörn Tölle** (Hach Company, Chile): *Experience with Water Quality Monitoring Stations in Latin America*
- 14:15 Daniel Murray** (U.S. Environmental Protection Agency, U.S.A.): *Smart Sewers: From Sensors To Data To Decisions*
- 14:30 Panel 3 Q&A**
- 14:55 Intermission and sponsor exhibition**

### Session 4: New Ideas and the Sensor Development Process

- 15:15 Gary Vincent** (GWF, UK) & **Sergio Thaddey** (GWF, Switzerland): *Innovation For Complex Flow Measurement Applications*
- 15:30 Catherine O'Neill** (Seneye, UK): *Beyond The ISE – Swarm Sensing Through New Technology*
- 15:45 Manuel Regueiro Picallo** (Universidade da Coruña, Spain) & **Antonio Moreno** (Deltares, Netherlands): *MONTSE: Sediment Accumulation Monitoring System Resulting From International Collaboration*
- 16:00 Panel 4 Q&A**

### Close

- 16:25 Andy Nichols** (SWIG & The University of Sheffield): *Webinar close*
- 16:40 Webinar end & sponsor exhibition**

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