



**Condition monitoring:
Enabling condition-based maintenance in the water industry
using sensors and systems
9th May 2018
MTC, Ansty Park, Coventry, CV7 9JU**

As the UK water industry continues to adapt to a TOTEX model there is an ambition to understand the health of assets in real-time to optimize systems, plan maintenance and better inform future designs. The need for data on asset condition, health, performance and efficiency creates a need for sensors and systems to provide the data and information to the right people at the right time.

A paradigm shift from reactive or time based maintenance to condition based maintenance requires sensors and systems to drive proactive interventions and improve OEE. Many methods are available on-line and off-line for monitoring assets of varying criticality such as vibration monitoring, acoustics, thermography, motor current signature analysis and tribology to name but a few. As a strategy matures the implementation of the relevant technology is key to ensure engineers can diagnose a problem once identified.

Chair: Richard Bragg, United Utilities Plc

- 09.30 Tea, Coffee & registration
- 10.00 Introduction by the **Chairman, Richard Bragg, United Utilities Plc**
- 10.10 A systems approach to Condition Based Maintenance. **Chris Bates, United Utilities**
- 10.40 How to successfully implement a condition monitoring strategy. **Tom Berry - Baker Hughes (a General Electric company)**
- 11.10 Tea & Coffee
- 11.30 Condition Monitoring using MindSphere. **Paul Diggle, Siemens**
- 12.00 IRISS – iCAST - Reliability Centred Maintenance. **Calum Howitt, Process Plus & David Smith, IRISS**
- 12.30 Discussion & Lunch
- 13.30 Optimising long term capital maintenance strategies. **Martin Osborne, WSP**
- 14.00 An introduction into Artificial Intelligence and Machine Learning. **Mohamad Vedut, EMAGIN**
- 14.30 Delivering a step-change in asset performance in the water industry. **Laurie Reynolds, Aquamatix**
- 15.30 Discussion
- 15.45 Close

SWIG REGISTRATION: The cost of attending the Workshop is £92.00 inc VAT for SWIG members. £166 inc VAT for non-members. £21 for students. Literature may be distributed for a fee of £69 and a limited number of table top displays are available at £132 each. Registrations can be made by Tel 01934 830658 or by email to rosa.richards@swig.org.uk or using the on-line booking form. **Please advise of any special dietary requirements at time of booking.** Cancellation policy: Refunds can only be made if cancellations are notified at least 5 days in advance of the Workshop date.