

Leakage & its effects on Resilience, another view

1st April 2020

Afternoon webinar, 1-4pm, 1 April 2020

Leakage reduction is a key part of all the UK water companies PR19 submissions. Ambitious targets have been set. Leakage continues to be a global challenge to the water industry. Water companies are focused on managing leakage to levels that are acceptable to customers and justifiable on economic grounds. The industry is also concerned about the long-term resilience of water supply, and see the need for lower levels of leakage to improve resilience.

Therefore, there is a need for reliable and accurate measurement of leakage in the distribution system; from the point of abstraction, through the treatment process, and up to the customers' stop tap. Improved measurements are needed in terms of quantifying leakage in different areas, accurately pinpointing leakage in the network, and prioritizing leakage repairs.

Resilience is of course something else. One aspect is how do we the water industry ensure that a burst, which often developed from a leak, can be coped with or better still predicted. Mains rehabilitation, dynamic DMA's are also a key part of resilience.

The workshop will explore how many types of sensors, not just flow and acoustic loggers, but also water quality and pressure transient measurement systems and data analytics play an important part in managing and reducing leakage. This workshop will bring together water companies, researchers and the supply chain to explore how new technologies and systems can help to reduce leakage and save water.

Chair: Garry Tabor, ATI and Mark Tully, Southern Water

13:00 Introduction by the Chairman.

13:10 Water company perspective. **Mark Tully, Southern Water**

13:40 Dynamic DMAs. **Frank van der Kleij, Bristol Water**

14:10 Leakage: Working together to deliver robust leakage reduction strategies. **Ruth Clarke, Xylem**

14:40 Measuring and interpreting water quality parameters to support resilient water systems.
John Gaffney, Siemens

15:10 Network Calming and Burst detection via Pressure Transient Monitoring: Insight from Transient Monitoring case studies across UK and Europe, **Mark Hendy, Syrinix**

15:40 Inverse Hydraulic Model-Based Method for the Near Real-Time Detection and Localisation of Bursts in Water Distribution Networks. **Ivan Stoianov, Imperial College London**

16:10 Data assisted leakage and management. **Jonathan Harlock, Sypro**

16:30 Discussion & Close

REGISTRATION: The cost of attending the webinar is free for SWIG members. Non members will be charged £60 inc VAT to attend the webinar. 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.