



SWIG workshop: Resilience of sensor networks and use of sensors in challenging applications.

3 November 2016

Telford International Conference Centre

Keeping the Country Running is the current UK Government guidance on resilience. It considers resilience as the ability of assets, networks and systems to anticipate, absorb, adapt to and/or rapidly recover from a disruptive event. Monitoring and control systems are fundamental to the operation of the water utilities and have, in recent years, become increasingly important in the protection of water industry assets against the effects climate change. This morning session will look at examples of where technology and processes have been put in place to provide the required resilience.

Data from on-line instrumentation is increasingly becoming fundamental for managing risk, maximising efficiency and providing the wider business with reliable and trusted information. Although the quality and reliability of instrumentation has improved significantly over recent decades there remain monitoring applications which are operationally challenging. The afternoon session will look at examples, primarily from outside the water industry where sensors have successfully been used in challenging applications and potential issues such as installation, maintenance and performance have been addressed.

Chairmen: Dene Marshallsay, Artesia Consulting and Leo Carswell, WRc

09.30 Tea, Coffee & registration

Morning Theme: Resilience of Sensor Networks

10.00 Introduction by the Chairman. **Dene Marshallsay, Artesia Consulting**

10.10 Introducing resilience thinking for multiple water sector benefits. **Dr Sarah Ward, University of Exeter**

10.40 3G Camera technology as an integrated solution for Flood Defence. **Matt Dibbs, Meteor Communications**

11.10 Coffee break

11.30 A turnkey underground structure monitor. **Edward Klinger, CNI Guard**

12:00 Q&A Panel Session

12.30 Lunch & networking

Afternoon Theme: Use of Sensors in Challenging Applications

13.30 Introduction by the Chairman. **Leo Carswell, WRc/SWIG**

13.40 Learning from applications in environmental monitoring, industrial wastewater monitoring and oceanography. **Darren Hanson, Xylem Analytics**

14.10 Solving difficult monitoring problems. **Greg Kilbride, Siemens**

14.30 Coffee break

14.45 Chlorine monitoring in a challenging environment. **Geoff Darlow, Coolkeeragh ESB Ltd**

15.15 Q&A Panel Session

15.45 Close

REGISTRATION: The cost of attending the Workshop is £36.00 inc VAT for SWIG members for the whole day or £18.00 inc VAT for a ½ day. For non members £66.00 inc VAT for a whole day or £33.00 inc VAT for a ½ day. Registrations can be made online at <http://www.onlineregistration.co.uk/shows/wwem/16/regwwem.php> Please advise of any special dietary requirements at time of booking.