

## Low Cost Sensors Workshop

5<sup>th</sup> July 2017

University of Southampton, Building 176L, Bolderwood Campus, Burgess Road,  
Southampton SO16 7QF

The increasing interest in the Internet of things and the drive for 'sensors everywhere' has resulted in an increased requirement for low cost sensors. This is beginning to become a reality partly due to increased global competition in the sensor supply market. Although sensor cost reductions in the water and environmental monitoring sector has been achieved in recent years, it is debateable as to whether this has been significant enough to impact on numbers of sensors fitted or deployed.

The SWIG Low Cost Sensor workshop will address where the Water Utility and Environmental Monitoring sectors currently stand in use of low cost sensors, and will provide some case studies demonstrating how water and catchment management have benefited so far from advances in this area. Examples from other industry sectors will also be presented to provide an insight into benefits gained within these sectors, and inform on how these can be translated into water monitoring requirements. Within this theme, the workshop will also include presentations from academics working on novel inexpensive sensors to provide some foresight into sensor systems for the (near) future.

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**Chair: Justin Dunning, Chelsea Technologies Group**

09:30 Tea, Coffee & registration

10:00 Introduction by the Chairman. **Justin Dunning, Chelsea Technologies Group**

10:20 Insights from High-resolution pressure data. **Matt Hawkins, Thames Water**

10:35 Low cost smart water meters. **Yvonne Ryan, Thames Water**

10:50 How to design a smart water meter - challenges and opportunities. **Dan Simmons, Quensus**

11:20 Tea & Coffee

11:50 Keeping it Simple – From Sensor to Screen. **Brian Back, Radio Data Networks**

12:20 IoT for Smarter Energy & Utilities and its role in the evolution of industry. **Adam Jones, IBM**

12:50 Discussion & Lunch

13:50 Low cost, autonomous sensor systems for the monitoring of nutrients in water. **Eoin Murray, TE Labs**

14:20 Low Cost Sensor in Development. **Adrian Nightingale, University of Southampton**

14:50 Seeking to disrupt the barrier to distributed sensing in Water IoT: A Low-Cost Optical Sensor for water monitoring. **Dr Ciprian Briciu-Burghina, DCU**

15:20 Discussion

15:45 Close

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**SWIG REGISTRATION:** The cost of attending the Workshop is £89.00 inc VAT for SWIG members. £161 inc VAT for non-members. £20 for students. Literature may be distributed for a fee of £67 and a limited number of table top displays are available at £128 each. Registrations can be made by Tel 01934 830658 or by email to [rosa.richards@swig.org.uk](mailto: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.