



**SWIG workshop:  
Industrial discharge monitoring &  
Smart water: extracting value & insights from data.  
22 November 2018  
Telford International Centre**

Morning session: There has been increasing awareness in recent years of the work by the Environment Agency to implement the 'polluter pays' principle, with news of successful prosecutions of large organisations. The 'polluter pays' principle is also at the heart of current governmental discussions on implementation of a Green Brexit. The aim of the morning session is to provide Industrial dischargers, Water companies, Contractors and Instrumentation providers an update on implementation of successful monitoring systems which ensure compliance and show how Industry themselves benefit from discharge monitoring.

Afternoon session: This session will explore the way that insights and value can be extracted from the huge amounts of data that is either already available or that will be generated by future deployments. The focus will be on the way issues such as data availability, data validity are addressed to allow powerful analytics and human examination to focus in on outliers and events. One key aim of any potential user of smart water systems is to move from a largely reactive world to a predictive world. This session will give insights into how that is possible.

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**Chairmen: Justin Dunning, Chelsea Technologies Group & Mike Strahand, ATi**

09.30 Tea, Coffee & registration

**Morning Theme: Industrial discharge monitoring**

10.00 Introduction by the Chairman. **Justin Dunning, Chelsea Technologies Group**

10.10 Flow and Effluent Monitoring requirements in groundwater activity permits. **Lucy Snape, Environment Agency**

10.40 Remote monitoring of final effluent using Multiparameter Sondes. **Matt Dibbs, Meteor Communications**

11.10 Coffee break

11:30 An automatic monitoring solution to prove trade effluent discharge for a food processing company. **Joy Ye, Dynamic Flow Technologies**

12:00 CENTAUR – Using Artificial Intelligence for active discharge control. **Kieran Williams, EM Solutions**

12.30 Lunch & networking

**Afternoon Theme: Smart Water: Extracting value and insights from data**

13.30 Introduction by the Chairman. **Mike Strahand, ATi**

13.40 The art of the possible: smart water distribution networks. **Vicky Banks, ATi**

14.10 Wastewater reuse and service management using Internet of Things **Laurie Reynolds, Aquamatix and Aquality**

14.30 Coffee break

14.45 Using machine learning on a cloud platform to extract value from water quality data. **Steve Hanslow, Siemens**

15.15 Case study of large scale water quality monitor deployment in distribution network. **Garry Tabor, ATi, Jez Downs, Southern Water and Luke Valvona, Intellitect**

15.45 Close

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**REGISTRATION:** The cost of attending the Workshop is £50 exc VAT for SWIG members for the whole day or £30 exc VAT for a ½ day. For non members £75 inc VAT for a whole day or £40 inc VAT for a ½ day. Registrations can be made at <https://www.ilmexhibitions.com/wwem/swig-conference/> Please advise of any special dietary requirements at time of booking.