

## **Modelling Workshop**

### **28 September 2016**

### **Concorde Suite, IWM Duxford, Cambridge CB22 4QR**

Modelling is ubiquitous throughout the water & environmental industries and covers everything from urban drainage & networks to treatment works design models to computational fluid dynamics to the way that environmental permits are set. However, models tend to be the premise of a few knowledgeable experts within the industry and their use is not understood greatly.

In this SWIG modelling workshop we will discuss the current state of the art and the direction it is heading in and how models can be greater used to aid not only the design but the operation of the water industry.

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**Chair: Oliver Grievson, Anglian Water & Stuart Mawditt, Crowder Consulting**

09:30 Coffee & registration

10:00 Introduction & welcome, by the chairmen

10:10 Introduction to modelling in Anglian Water. **Omid Shafibeik & Benjamin Clinch, Anglian Water**

10:40 Model Health Check – identifying why your model is no longer fit for purpose, **Stuart Mawditt, Crowder Consulting**

#### **11:10 Tea, Coffee and Networking**

11:40 Flow balance for a large water treatment works. **Claire Ashton, DNV GL**

12:10 Novel Survey and Analysis Techniques for the Quantification of Infiltration in Wastewater Networks. **Jonathan Cutting, Mouchel & Kieran Williams, EM Solutions**

12:40 Q&A session

#### **13:00 Discussion & Lunch**

14:00 Measuring the “unmeasurable”! Using flowmeters to help verify network flows. **Mark Davis, Flowline**

14:30 Structured (ASM) and Data-Driven Models Compared. **Simon Mazier, Perceptive Engineering**

15:00 Real-time and continuous nutrient sensing in the catchment: implications for event forecasting and model refinement. **Corey Koch, Seabird Coastal & Mike Bowse, CEH Wallingford**

#### **15:30 Discussion & close**

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**SWIG REGISTRATION:** The cost of attending the Workshop is £86.00 inc VAT for SWIG members. £156 inc VAT for non-members. £43 for students. Literature may be distributed for a fee of £65 and a limited number of table top displays are available at £124 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.