



## **SWIG / EA WORKSHOP Marine & estuarine monitoring**

09.30 to 14.00 hrs 3rd July 2009

Environment Agency, Thames Barrier Information & Learning Centre, 1 Unity Way, Woolwich, London, SE18 5NJ

Tel 020 8305 4188, [Location Map](#)

The coast around mainland Britain is approximately 11000 miles long. It supports fishing and recreation, but is dotted with towns, STWs, power stations, ports and industrial sites. Monitoring for European directives and environmental impact assessments for wind farms or new nuclear power stations will create an increasing need for marine and estuarine measurements by the Environment Agency, SEPA, CEFAS and other organisations. Instruments are used for in-situ measurement of temperature, salinity, dissolved oxygen, turbidity, chlorophyll, nutrients and other parameters. They vary from the very simple to complex chemical analysers. Accurate measurements can be difficult due to the harsh environment, complex chemistry and various interferent effects. This joint Environment Agency & SWIG Workshop will consider the challenges posed by monitoring requirements for the marine & estuarine environments.

### **OPTIONAL TOUR OF THAMES FLOOD BARRIER**

14.30 to 16.30 hrs. 3<sup>rd</sup> July 2009

Environment Agency, Thames Barrier, Eastmoor Street, Charlton, London, SE7 8LX

Tel. 020 8305 4123 [Location Map](#)

The Thames Barrier is one of the largest movable flood barriers in the world. It protects 125 square kilometres of central London from tidal surges. That's 1.25 million people, historic buildings, offices, power supplies, tube lines, hospitals and more. The Environment Agency runs and maintains the Thames Barrier as well as the capital's other flood defences. These defences include floodgates like the Barking Barrier and raised river banks. The Thames Barrier is also one of London's most striking and famous landmarks. With its distinctive stainless steel piers it spans 520 metres across the Thames near Woolwich. The barrier, which became operational in 1982, has 10 steel gates that can be raised into position across the River Thames if a tidal surge is predicted. When raised, the main gates stand as high as a five-storey building and as wide as the opening of Tower Bridge. Each main gate weighs 3,300 tonnes.

SWIG has arranged with the Environment Agency to offer a conducted tour of the Barrier at a reduced cost for Workshop delegates. Numbers are restricted so registrations for this tour will be strictly on a first come basis. Click [HERE](#) to view Health & Safety aspects of the tour.

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**Workshop Registration:** The cost of attending the Workshop is £70.00 incl VAT for members of SWIG and £130.00 incl VAT for non-members. Literature may be distributed for a fee of £50 incl VAT and a limited number of table top displays are available at £100 incl VAT each. Registration can be made using the on-line booking form at: [www.swig.org.uk](http://www.swig.org.uk) or by phone or fax to 015242 71461 or email to [info@swig.org.uk](mailto:info@swig.org.uk).

**Flood barrier tour registration:** The cost of the barrier tour is an **additional** £10.00 incl VAT for members and non-members of SWIG who have registered for the Workshop. Please specify "+ Flood Barrier Tour" when registering for Workshop

**Cancellation policy:** Refunds of Workshop registrations can only be made if cancellations are notified at least 5 days in advance of the Workshop date. No refunds for the Flood Barrier Tour can be made.

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**Marine & estuarine monitoring**

**WORKSHOP PROGRAMME**

**Chairman: Andrew Chappell, Environment Agency**

09.30 Coffee & registration

10.00 Introduction

**Andrew Chappell, Environment Agency**

10.10 Compliance monitoring in the marine environment & operational instrumentation

**Roger Proudfoot & Dave Wright , Environment Agency**

10.35 Novel fluorimetry techniques for environmental water monitoring

**John Attridge, Chelsea Technologies**

11.00 Recent advances in sensor technology provide better in-situ measurements for turbidity, nitrate & phosphates

**Terry Sloane, Planet Ocean Ltd.**

11.25 Coffee

11.45 Passive monitoring techniques for use in the marine environment

**Jan Balaam, CEFAS**

12.10 Miniaturisation of in-situ nutrient sensor technology

**Cedric Floquet, National Oceanography Centre, Southampton**

12.35 Water quality & directional flow measurements for the new Tyne crossing project

**Ian Thompson, YSI**

13.00 Discussion

13.15 Close of Workshop followed by lunch

13.30 Lunch

14.30 Start of optional Tour of Flood Barrier

16.30 Expected end of Tour of flood Barrier