

## Imaging – the original sensing technique

**25 October 2007 – National Media Museum  
Bradford, West Yorkshire BD1 1NQ Tel. 0870 7010200  
[www.nationalmediamuseum.org.uk](http://www.nationalmediamuseum.org.uk)**

Long before we developed the ability to perform microbiological or chemical analysis or even to measure the physical world around us, we used our eyes to see and our brains to give meaning to what we saw. 'Imaging' and image processing is a powerful sensing technique that bestows this capability on machines and computers. 'Imaging' functions in situations where the human eye cannot: in hostile environments, at the micrometre scale, at the kilometre scale, outside the visual light spectrum, where millions of repeat measurements are needed or where images are to be compared with a vast library of possible matches.

This functionality makes imaging well placed to meet the monitoring and control needs of the environmental and water sectors and, thanks to advances in computing power, is now more widely available than ever. This workshop will explore how imaging can be applied to operational and asset management in the water and environment sector.

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**Chair: Chris Jones, Research & Development Manager, Northumbrian Water Ltd.**

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| 09.15 | Coffee & registration  |
| 10.00 | Introduction<br><b>Chris Jones, NWLtd.</b>   |
| 10.15 | Imaging applications - winners, losers, and some hopefuls.<br><b>Steve Russell, WRc plc</b>  |
| 10.45 | CCTv - a smart and cost effective way to improve operations.<br><b>David Cawkell, SeSys Ltd.</b>   |
| 11.15 | Coffee   |
| 11.45 | New possibilities in optical detection<br><b>Gary Shaw, Shaw Water Engineering Ltd.</b>  |
| 12.15 | Evaluating the use of unmanned aerial vehicles (UAVs) for the monitoring of macroalgal mat dynamics on Seal Sands in the Tess Estuary<br><b>Daniel Donoghue; Durham University</b> |
| 12.45 | Discussion & Lunch   |
| 14.15 | Monitoring the Coastal Zone/Estuaries and Inland Waters with Earth Observation.<br><b>Samantha Lavender, SEOES &amp; Marine Institute, University of Plymouth</b>                  |
| 14.45 | Application of the Argus video system for coastal management<br><b>Suzana Ilic, Lancaster Environment Centre, Catchment and Aquatic Processes Group</b>                            |
| 15.15 | Discussion & close   |

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The cost of attending the Workshop is £67.50 inc VAT for members and £125 inc VAT for non-members. Cheques should be made payable to SWIG and sent to: SWIG, St. Michael's House, Whittington, Carnforth. LA6 2NX Tel./Fax. 015242 71461 Email: [info@swig.org.uk](mailto:info@swig.org.uk) Literature may be distributed for a fee of £50 and a limited number of table top displays are available at £100 each

You can pay by Visa, Mastercard, VISA Delta, Switch, JCB, Solo, Maestro