



## Sensor networks and grid computing 10 March 2009

Lancaster Environment Centre, Lancaster University, LA1 4YQ

Tel. 01524 510223 [Directions](#)

This joint SWIG and LEC Workshop focuses on System of Systems (SoSs). These involve potentially multiple sensor networks using a variety of communication technologies interconnected with computational Grids for the modelling, visualisation and data storage aspects of the system. SoSs represent a new and potentially very important area of study with major challenges in terms of satisfying end to end properties of the system and also achieving key properties such as interoperability. Overall, this work requires the development of robust hardware and sensors, together with middleware for integration and interoperability in such complex systems to provide more holistic understanding of water related problems. This Workshop will be an exciting opportunity to explore and discuss the future environmental and engineering applications of SoSs.

**Chairman: Prof. Ian Marshall, Director of Environmental Informatics, Lancaster Environment Centre, Lancaster University.**

- 09.15 Coffee & registration
- 10.30 Introduction  
**Ian Marshall, Lancaster Environment Centre.**
- 10.50 Operating Large Sensor Networks  
**Damjee Ediriweera, Lancaster Environment Centre**
- 11.15 Coffee
- 11.45 Practicality & commerciality of sensor networks in extensive water quality monitoring  
**Stephen Boulton, Salamander Ltd. & University of Manchester**
- 12.15 Practical wide area integrated wireless sensor technology  
**Brian Back, Radio-Tech.**
- 12.45 Discussion & Lunch
- 13.30 Decision support for near-real time management of water distribution systems  
**Dragan Savic, Centre for Water Systems, University of Exeter**
- 14.00 SNEE: A query processor for sensor networks.  
**Ixent Galpin, University of Manchester**
- 14.30 Standardised information representation for interoperability  
**Norman Swindells, Ferroday Ltd.**
- 14.45 Discussion & close

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### 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).

**Cancellation policy:** Refunds can only be made if cancellations are notified at least 5 days in advance of the Workshop date.