

## 2009 wireless sensing winners announced

*Wireless sensing systems powered by vibration and electromagnetic energy harvesters win best demonstration awards at the 2009 Wireless Sensing Showcase.*

Birkbeck College at the University of London and leading energy harvesting firm Perpetuum have won awards at the 2009 Wireless Sensing Showcase organised by the Sensors and Instrumentation Knowledge Transfer Network (SIKTN).

The Wireless Sensing Showcase recognises excellence in practical application of novel technologies that enable wireless sensing. This year's winning entries are:

- **Perpetuum Ltd** (*Best Demonstrator, Commercial Products*)  
For its use of vibration energy harvesters to power wireless condition monitoring systems. The systems are comprised of nodes that monitor temperature and vibration. The resulting data is transmitted to a laptop-based receiver for display and analysis. The wireless sensor nodes are available separately for integration with other systems, and can be adapted to measure other parameters such as pressure or flow.
- **Birkbeck College, University of London** (*Best Demonstrator, R&D Systems*)  
For its novel approach to in-network data analysis for Intel's ground-breaking battery-free Wireless Identification and Sensing Platform (WISP) platform, is powered by harvested electromagnetic energy from off-the-shelf UHF RFID readers. The software provides real-time data analysis and the Birkbeck team was the first in the UK to develop software for this new platform technology.

"The Wireless Sensing Showcase is what the Sensors & Instrumentation KTN is all about," says SIKTN Director Phil Cooper. "We're here to enable the practical transfer of knowledge from research laboratory to market. There are thousands of papers showing the possibilities of wireless sensing, but far fewer systems demonstrating the practicalities. It's very exciting to recognise the best in class, and to

bring together those groups doing hands on work and to see the networking and collaboration that results.”

The Wireless Sensing Showcase included an open call for entries, and 14 projects were accepted between two categories: 11 projects for the R&D Systems category, and 3 for the Commercial Products category.

Projects were scored for relevance, innovation, challenges addressed, benefits to delegates, and benefits to society.

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For images or more information on any of the above, please contact:

**Press contact**

Robin Wilkinson

0845 680 1869

[robin@proofcommunication.com](mailto:robin@proofcommunication.com)

**Notes to editors**

1. Further information on the events, the projects demonstrated, keynote speakers, and members of the judging committee: [www.wisig.org/showcase2009](http://www.wisig.org/showcase2009)
2. The UK's yearly £3bn sensing market supports an instrumentation market worth £7.74bn, and an end user market of £120bn.

The Sensors & Instrumentation Knowledge Transfer Network (SIKTN) covers the whole of the UK's sensing community, from the principles of measurement and novel sensor technologies to instrumentation, deployment and data analysis.

It has over 1,700 academic and industrial members. It is primarily funded by the Technology Strategy Board and research councils.

The Sensors & Instrumentation KTN has secured over £55m funding for its members.

It runs an active programme of technical workshops and has a team of technology translators provided by managing partners, the National Physical Laboratory and Qi3.

[www.sensorsktn.com](http://www.sensorsktn.com)