



Business
Development
Opportunity – see
overleaf for
details

Intelligent Sensors

Assessing Transferable Applications for Development of Novel Technologies

Evening Networking Event: Wednesday 16 September, 2009, BMA House, London

Benefits of Attending:

- **ENHANCE** your business network via our 1-2-1 partnering service
- **ASSESS** the latest innovations in sensors and sensor related technologies
- **EVALUATE** developments in self aware intelligent devices
- **DISCOVER** how academic collaboration can benefit your organisation

Speakers include:

Dr Robin Mannings
BT Innovate

Paul Gascoine
Smiths Detection

Simon Maddison
Senceive Ltd

Dr Paul Mitcheson
Imperial College London

Dr Gopal Ramcharn
Southampton University

Supported by



For further information, contact **Emma Graham** at
e.graham@LTNetwork.org or on **0870 730 8688**

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Intelligent Sensors

Development within the sensor and intelligent technologies market continues to evolve at an exponential rate, irrespective of challenging global financial conditions. Sensor innovation remains driven by markets such as automotive, communications, manufacturing, medical, military, robotics, and security to name but a few. Key to the continued evolution of transferable sensor technology is the use of this low-cost added value manufacturing option, as it provides both a fiscally and environmentally beneficial way forward.

The object of this event is to introduce delegates to the latest solution driven innovations in intelligent sensor-integrated systems, and to examine and discuss their adaptability for multi-sector applications, as well as provide a unique forum in which to access the region's academic brilliance, and gain detailed knowledge of the cutting-edge research and developments in the field of sensors.

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| 17.45 | Registration with tea and coffee | | |
| 18.15 | Introduction to the aims and objectives of LTN and the Security and Sensing Group | | <ul style="list-style-type: none">• Discussing cross sector application of new biosensor technology for collaborative development opportunities Paul Gascoine , Principal Biotechnologist, Smiths Detection |
| 18.25 | Sensors: System to System Intelligence <ul style="list-style-type: none">• Analysing knowledge fusion• Considering challenges to the constant feedback that exists between sensing, decision-making and acting in these types of systems• Evaluating failure as the road to success Dr Gopal Ramcharn , Lecturer, Southampton University & BAE Systems | 19.10 | Power Innovation: Advanced Capabilities in Powering Sensors Explored <ul style="list-style-type: none">• Examining the relationship between size and power capabilities• Assessing the benefits of energy harvesting for autonomous sensor networks• Addressing self powering microsystems Dr Paul Mitcheson , Lecturer, Imperial College London |
| 18.40 | Sensor Network Resilience in Self Aware Systems <ul style="list-style-type: none">• Using chip-based sensors for industrial asset monitoring – leads to affordability• Developing robust industrial asset monitoring systems with micro-sensor devices; self configuring, resilient to failure and simple to deploy• Exploring the broad range of micro-sensor types available resulting in a new range of applications Simon Maddison , Chief Operating Officer, Senceive Ltd | 19.25 | The Future Research Challenges of Fixed, Mobile and Ad Hoc Sensor Networks <ul style="list-style-type: none">• Sensing and context aware computing - primary sensing and their derivatives• Ubiquitous positioning i.e. location and orientation knowledge based on heterogeneous sensing and SLAM (Simultaneous Location and Matching)• A vision - "The Geo-Scope" - using future web technology to aid convergence of sensor, image and map data and to make it viewable to a wide audience through the Web• Sensing and NBIC Convergence - internet of things, potential of biomimetics, sensing and machine learning and beyond Dr Robin Mannings , Futurologist, BT Innovate |
| 18.55 | Developing Selective Biosensors for Multiple Industry Application <ul style="list-style-type: none">• The problems of transferring lab based biosensors to the field. Interferants and cross reactivity problems with the normal environmental bacterial flora.• Strategies for low cost biosensors | 19.40 | Question and answer session from the audience with the speaker panel |
| | | 20.10 | Networking wine and buffet reception with intelligent sensor poster showcase; partnering sessions will be available. |

BUSINESS DEVELOPMENT OPPORTUNITY

This unique event will be an excellent opportunity to initiate new relationships through tailored networking and a showcase of the latest academic research. LTN offers a range of sponsorship packages to enhance your brand, for further information contact Kate Ray on 0870 730 8682 or k.ray@ltnetwork.org



A special interest group bringing together experts from industry, academia and government, across the Greater South-East, to stimulate knowledge exchange

The Group produces regular networking events on security and sensing technologies which have discussed a range of topics, attracting over 800 representatives from across the public and private sectors. Membership is free and includes:

- Priority invitations to the Group's regular seminars, workshops and networking events
- Regular e-newsletters, with the latest sector news and listings of UK and international events
- Access to Enterprise Europe Network – a multi-partner consortium spanning 40 countries across Europe

If you would like further information or would like to become a member of this group please contact Natalie Tamiollo, Special Interest Group Manager on 0870 730 8683 or at n.tamiollo@LTNetwork.org

Registration – Intelligent Sensors: Transferable Application Innovation

Payment: Commercial - £80.00 (+VAT = £12.00) - £92.00

Small / medium companies (50-149 employees) £60.00 (+VAT = £9.00) - £69.00

Micro companies (49 employees and below) £40.00 (+VAT = £6.00) - £46.00

Academic** - Free

**Academic rate is extended to full-time employees of government, universities and university-affiliated hospitals only

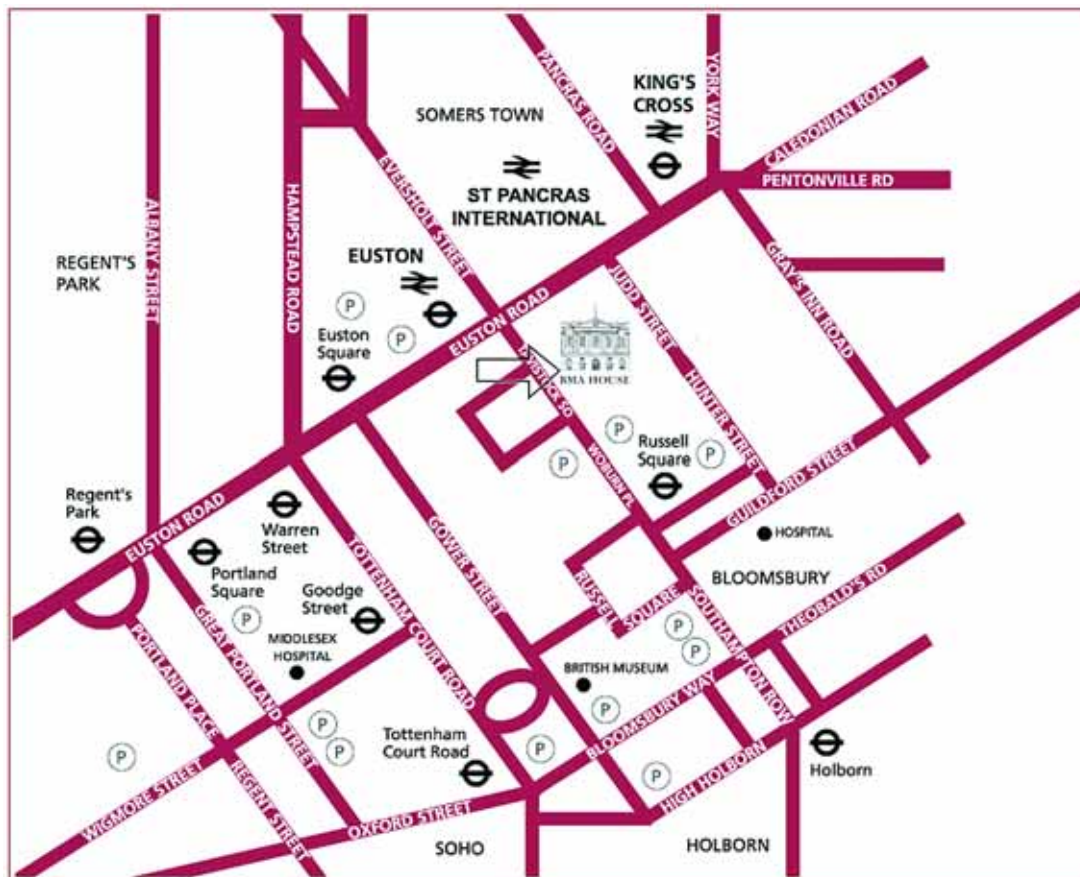
All payments must be received prior to the conference and should be made within 14 days of receiving a provisional place. Attendance will be confirmed upon receipt of payment. Prices include all refreshments and delegate documentation. All LTN events are by invitation to ensure that the quality of interaction is maintained. The purpose of our events is to encourage collaboration between industry and academia. You are welcome to invite people whom you think would be interested, however LTN reserves the right to decline applications. To apply for an invitation, and to find out about different payment methods, please email **Emma Graham** at e.graham@LTNetwork.org. **Cancellations must be made at least 7 days prior to the event.**

This event will take place at
BMA House, Tavistock Square, London, WC1H 9JP

How to get there

This event will take place at BMA House, Tavistock Square, London, WC1H 9JP, Tel: 020 7383 6963/6692

For a more detailed view, please go to: <http://www.bmahouse.org.uk/bmahouse.nsf/Content/WhereToFindUs>



BMA House is easily accessible by public transport.

The nearest Underground stations are Euston (Northern and Victoria lines), Russell Square (Piccadilly line) and Euston Square (Circle, Metropolitan and Hammersmith and City lines)

The closest main line train stations are Euston and King's Cross St Pancras which are less than 10 minutes' walk away.