

A Joint Cambridge Wireless Academic and Industry SIG and Digital Communications KTN (DCKTN) Event

“SME too: How do new business ventures and SME’s engage with Academia?”

13<sup>th</sup> May 2010

Hosted by The Institute for Manufacturing (IFM)



Championed by Dr Ian Wassell of The Wireless Communication Team, Dr Eiman Kanjo of Cambridge Mobile Sensing, David Roberts from Ogma Solutions, Alex Butler from Microsoft Research, Gordon Aspin of Cognovo and Claudio Marinelli of Nokia Corporation

Venue – Institute for Manufacturing, Alan Reece Building, 17 Charles Babbage Road, Cambridge, CB3 0FS, UK

**AGENDA**

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<b>09:30</b>	<b>Registration over Tea and Coffee</b>
<b>10:00</b>	<b>Introduction to the Cambridge Wireless Academic and Industry SIG from Dr. Ian Wassell</b>
<b>10:10</b>	<b>Welcome from the Host – Prof. Mike Gregory CBE, Head of Manufacturing and Management Division, Institute for Manufacturing (IfM)</b>
<b>10:20</b>	<b>Welcome from DCKTN – Eddie Murphy, Network Manager, DCKTN</b>
<b>10:30</b>	<b>Session One on “Access to funding for Wireless/Technology projects”</b> – Chaired by Dr Ian Wassell, Univ. of Cambridge Dr Maurizio Pilu , Lead Technologist , Technology Strategy Board Dr Andy Lawrence, Communications Portfolio Manager, EPSRC
<b>10:50</b>	<b>Panel Session with Session One Speakers</b>
<b>11:10</b>	<b>Coffee, Tea and Networking</b>
<b>11:40</b>	<b>Session Two on “Intellectual Property Issues”</b> – Chaired by Dr. Eiman Kanjo, Cambridge Mobile Sensing Ron Moscona, Solicitor, Dorsey and Whitney Tim Worden, Partner, Taylor Wessing
<b>12:00</b>	<b>Panel Session with Session Two Speakers</b>
<b>12:20</b>	<b>Lunch and Networking</b>
<b>13:20</b>	<b>Session Three on “Large organisations working with SME’s – Examples/Case Histories”</b> – Chaired by David Roberts of Ogma Solutions Alex Butler, Senior Hardware Research Engineer, Microsoft Research Andrew Matthews, Senior Business Validation Manager, Nokia Research Jogesh Limbani, Head of Open Innovation, Orange Labs
<b>13:50</b>	<b>Panel Session with Session Three Speakers</b>
<b>14:10</b>	<b>Session Four on “Case Study from SME’s”</b> – Chaired by David Roberts, Ogma Solutions Introduction from David Roberts of Ogma Solutions Gordon Aspin, CEO, Cognovo
<b>14:25</b>	<b>Q&amp;A with Session Four Speaker</b>

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<b>14:35</b>	<b>Open discussion with the audience</b> – Chaired by Dr Walter Tuttlebee, Chief Executive, Mobile VCE, with a short introduction to Mobile VCE.
<b>15:10</b>	<b>Closing Remarks from DCKTN</b> – Eddie Murphy, Network Manager, DCKTN
<b>15:15</b>	<b>Closing Remarks</b> – Dr Ian Wassell Fill in Evaluation Forms
<b>15:20</b>	<b>Coffee/Tea &amp; Networking</b>
<b>16:15</b>	Event Closes

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*With the permission of the speakers, presentations will be loaded to the Cambridge Wireless website on the day following the event*

## **Profiles of the Organisers**

### **Digital Communications Knowledge Transfer Network (DCKTN)**

This new KTN has been formed with the objective of bringing competitive advantage to the UK by facilitating the exchange of knowledge on Digital Communications technologies and capabilities. The DC-KTN plan to do this by acting as a 'Network of Networks', organising a range of events and providing support throughout the UK in association with other communities of interest and centres of excellence, and by working alongside the Devolved Administrations and Regional Development Agencies. A key priority during this start-up phase of the DC-KTN is to establish an as comprehensive as possible network of members spanning the entire industry, together with those University Departments, research organisations and government agencies that are active in the field. For more information please visit: [www.dcktn.org.uk](http://www.dcktn.org.uk)

### **Cambridge Wireless**

Cambridge Wireless is a leading and vibrant wireless community with a rapidly expanding network of companies interested in the application of wireless technologies. In addition to VIP networking activities and business development support, we run a number of Special Interest Groups focussed on specific technology and/or market areas, providing opportunities for member organisations to meet, form partnerships and exploit opportunities for new business. Cambridge Wireless has a number of partnerships with like-minded organisations around the world, and we endeavour to keep members fully up to date with the latest developments, and assist in exploring new business opportunities with local and international companies. For more information, please visit: [www.cambridgewireless.co.uk](http://www.cambridgewireless.co.uk)

## **Profile of the Host**

### **Institute for Manufacturing**

The University of Cambridge's Institute for Manufacturing (IfM), is a division of the Department of Engineering. The IfM brings together expertise in management, economics and technology to address the full spectrum of industrial issues. Its activities integrate research and education with practical application in companies, providing a unique environment for the creation of new ideas and approaches to modern industrial practice.

The IfM works closely with industry, at a regional, national and international level, providing strategic, technical and operational expertise to help companies to grow and to become more competitive. This work brings benefits to both parties. Industry receives practical solutions based on the latest applied research. The university receives live feedback to help set the agenda for new research. For more information please visit <http://www.ifm.eng.cam.ac.uk/>

## **Profiles of the SIG Champions**

### **Ian Wassell, The Wireless Communication Team**

Dr Ian Wassell joined the University of Cambridge Computer Laboratory as a Senior Lecturer in January 2006. Prior to this, he was with the Department of Engineering for six years. He received the PhD degree from the University of Southampton in 1990 and the BSc., BEng. (Honours) Degrees (First Class) from the University of Loughborough in 1983. He has in excess of 15 years experience in radio communication systems gained via positions in industry and academia and has published more than 130 papers. His research interests include broadband FWA networks, wireless sensor networks, radio propagation, coding, and communication signal processing. For more information, visit [www.cl.cam.ac.uk/~ic231/wirelesscomms/wct\\_main.html](http://www.cl.cam.ac.uk/~ic231/wirelesscomms/wct_main.html)

### **Eiman Kanjo, Cambridge Mobile Sensing**

Eiman is a Researcher at the Computer Laboratory, University of Cambridge. Her main research interest is in mobile and pervasive sensing. Prior to joining Cambridge University, Eiman worked at the MRL (Mixed Reality Laboratory), Computer Science, University of Nottingham in the area of Pervasive Computing and location based games. She has also worked as a researcher and developer at the ICCAVE (the International Centre for Computer Games and Virtual Entertainment, Dundee) carrying out research work in the area of "Interactive Toys and TableTop Interfaces". She earned her PhD from the Computer Science department, University of Abertay Dundee, Scotland, titled "Vision based Interactive toys environment". For more information, visit <http://www.srcf.ucam.org/~ek315/>

### **David Roberts, Ogma Solutions**

David's first real job was noodling around with Unix on an AT&T 3B2 mini computer at BT Research Labs in Martlesham. He then moved to Acorn Computers where he helped port BSD Unix to the ARM3 chipset. With his coding skills receding faster than his hairline, he jumped into more technical management positions, the last 7 years of which have been at Symbian. During his time at Symbian he has headed up a consultancy group working closely with Nokia on S60 device creation before moving into Research. For more information, visit [www.symbian.com](http://www.symbian.com)

### **Alex Butler, Microsoft Research**

Alex is a Senior (Research) Hardware Engineer at Microsoft Research, Cambridge in the Sensors & Devices group where he spends his days helping to create new technologies in the area of embedded devices and human computer interaction - including novel multi-touch Surface technologies. He started out spending 10 years at Manchester University doing academic research into optical computing, holographic interconnects, parallel 3D computer graphics, scientific visualisation & virtual reality systems. He then spent another 10 years at Scientific Generics (Sagentia) doing commercial technology & business consultancy including helping to implement embedded wireless and video-on-demand systems for a number of start-ups such as Ionica, Westica and Imerge. Four tortuous years then followed at Polatis (a photonic switch start-up) where - as part of the founding team - he led the technical development of a novel ultra-low insertion-loss piezo-driven OXC product. At Microsoft Research he is part of a fantastic group of inventive and creative minds hoping to bring rich, new, and playful user experiences to the world of human computer interaction looking 5, 10 or even 20 years ahead. For more information, visit <http://research.microsoft.com/aboutmsr/labs/cambridge/default.aspx>

### **Gordon Aspin, Cognovo**

Gordon first came to Cambridge as a student and stayed to forge a career in wireless. After early work in cordless telephony and digital satcomms, he was a founder of the cellular technology licensing business, TTPCom, in the early 90s. Following TTPCom's successful IPO in 2000, he stayed on as COO in charge of global R&D until the company was acquired by Motorola in 2006. Within Motorola he led the Mobile Devices' next generation LTE development programme for a year before joining Camitri Technologies, a start-up focused on commercialisation of university IP in wireless. In 2009, together with some colleagues from TTPCom, he founded Cognovo as a vehicle for the introduction of a new software-configurable platform for wireless modems.

### **Claudio Marinelli, Nokia Research Centre**

Claudio Marinelli is the Director of Open Innovation and Academic Relations for the Nokia Research Centre (NRC). He is responsible for the strategic and operational aspects of the collaborative research activities performed in ten NRC laboratories across Europe, Africa, Asia and the USA. Claudio joined Nokia as a Business Development manager at the NRC laboratory in Cambridge, UK, where he was responsible for nanotechnology road mapping and productisation. Prior to joining Nokia, Claudio was Entrepreneur-in-Residence at the University of Cambridge for Advance Nanotech, a US-based, seed investment fund focussed on academic spin-offs. In the past Claudio was also a Senior Research Associate in the Photonics Group at the University of Cambridge, UK and a Senior Device Engineer with Luxnet Corp., a Fremont, Ca, start-up specialised in fibre optics components. Claudio holds a first degree in Physics (University of Trieste, Italy), a PhD in Electronic Engineering (University of Bristol, UK) and an MBA from the Judge Business School (Cambridge, UK).

## **Profile of the Chair, Speakers and Panellists**

### **Mike Gregory, Insitute for Manufacturing**

Mike Gregory is Head of the Manufacturing and Management Division of the University Engineering Department and of the Institute for Manufacturing (IfM).

Following an early career in industry he was the founder member of the team which established the Manufacturing Engineering Tripos, a senior undergraduate programme covering, marketing, design, production, distribution and service with very close industrial engagement. Subsequent developments in research and collaboration with industry reflected this broad view of manufacturing and led to the establishment of the IfM in 1998. Linking science, engineering, management and economics and integrating education, research and practice the IfM now has over 230 staff and research students and a further 100 undergraduate and Masters students.

Mike Gregory's work continues to be closely linked with industry and government and he has published in the areas of manufacturing strategy, technology management, international manufacturing and manufacturing policy. He directs - with senior colleagues - the Institute's EPSRC Innovative Manufacturing Research Centre. External activities have included membership of various government and institutional committees. He served as Executive Director of the Cambridge MIT Institute from 2005-2008 and was Springer Visiting Professor at UC Berkeley in 2008/9. He chairs the UK Manufacturing Professors Forum and is a member of the UK Government's Ministerial Advisory Group on Manufacturing.

He is a Fellow of Churchill College Cambridge

### **Dr Walter Tuttlebee, OBE, Mobile VCE**

Walter Tuttlebee has led the Virtual Centre of Excellence in Mobile & Personal Communications, Mobile VCE since 2000, overseeing its development from a national research project to a globally acknowledged centre for strategic research. Established in 1996, Mobile VCE benefits from a global industrial membership which defines & steers programmes of technology research, harnessing the leading UK research Universities to deliver world-class, industry-led, research, across a wide range of wireless, networks, software and user technologies.

Whilst with Mobile VCE, Walter has led business missions to China, Japan, Korea and North America, working closely with industry, academia and Governments. He presently serves on the Programme Management Committee of the UK-China Science Bridge for Beyond 4G Wireless Communications and has served on Ofcom's Spectrum Advisory Board and the Expert Advisory Group to the eMobility Technology Platform. He is also a Director of the Digital Communications Knowledge Transfer Network, which Mobile VCE helped to establish in 2007.

Walter holds an MBA from Cranfield University, and BSc and PhD degrees from Southampton University. He was appointed an Officer of the Order of the British Empire (OBE), for services to the telecommunications industry in 2008.

### **Ron Moscona, Dorsey and Whitney**

Ron Moscona is a senior solicitor at Dorsey & Whitney's London office specialising in intellectual property law. Ron advises on all aspects of intellectual property law. He has negotiated numerous IP licences, joint ventures and technology transfer agreements and acted on the acquisition and financing of many large and small technology businesses. Ron also acts for clients in IP litigation and in disputes relating to licensing and collaboration agreements. Dorsey is a technology-focused international law firm with offices throughout the US, Canada, Asia and in the UK. The firm's UK practice advises on corporate, finance, intellectual property, dispute resolution, real estate and employment matters and has a core client base of university spin offs and other early-stage and established technology companies.

### **Tim Worden, Taylor Wessing**

Tim is a partner in the Cambridge office and specialises in transactional, non-contentious and regulatory intellectual property in the life sciences, IT and hi-tech sectors. He advises on:

- A range of IP, IT and commercial agreements, such as technology and software licences, collaboration agreements, research and development agreements, clinical trials agreements and a range of services agreements.
- Regulatory issues in the pharmaceutical industry - in particular in relation to the promotion of medicines in the UK - and in the medical devices sector.
- IP, IT and commercial issues arising out of mergers and acquisitions, venture capital investments and IPOs.
- IP and commercial contract disputes.

Tim was previously Legal Counsel and Company Secretary at Eli Lilly and Company Limited, the UK subsidiary of the US pharmaceutical company.

He has a degree in Natural Sciences (Chemistry and Biochemistry) from Cambridge University and a Diploma in Intellectual Property Law and Practice from Bristol University.

## Dr Maurizio Pilu, Technology Strategy Board

Dr. Maurizio Pilu is Lead Technologist in ICT at the Technology Strategy Board, where he is part of a small team responsible for high-impact strategies investments in innovative projects and businesses across the UK. He previously directed IT strategy and investments at Imprimatur, an international private equity house specialising in early-stage investments in breakthrough technology businesses. Before that he worked for ten years in the Office of Strategy and Technology at Hewlett Packard, leading and co-leading advanced technology projects. He holds a PhD in Artificial Intelligence, and an Executive MBA, and has over 50 patents and over 30 scientific publications to his name.

## Andrew Lawrence, EPSRC

Andy Lawrence is a research portfolio manager at the Engineering and Physical Sciences Research Council. He has been responsible for looking after the Communications research portfolio, consisting of around £50M research funding, since Dec 2007. He sits both within the ICT programme (which focusses on the UK academic research base) and the Electronic, Comms and IT sector team (which focusses on interactions with industry and other stakeholders). Prior to working at EPSRC, Andy was a researcher in the field of meteorology, having gained a PhD from the University of Cambridge/ British Antarctic Survey and held research positions at MIT (Boston, USA) and the European Centre for Medium-Range Weather Forecasts (Reading, UK).

## Jogesh Limbani, Orange Labs UK

Jogesh Limbani is the Head of Open Innovation at Orange Labs UK, the Orange International R&D laboratory located in Chiswick, West London, where he joined in June 2002. The lab is now recognised within the France Telecom Group for its excellence in Symbian Software Development, Design & Usability and Unified Communications towards the Integrated Operator model.

Here he discovers and leverages upon the innovation capabilities found both internally and externally to Orange Labs UK in line with the France Telecom Group R&D strategy for Open Innovation and applies these to recognise and exploit research and business opportunities through engagement with the UK Eco-structure.

During his career at Orange Labs UK, Jogesh has previously held the position of Head of Research and been responsible for the management and direction of 3GPP IMS (IP Multimedia Subsystem) Architecture and Services, SIP (Session Initiation Protocol) and IPv6 activities.

Prior to Orange Labs UK, Jogesh held the positions of Software Developer and Telecommunications Engineer at Nortel Networks within the Fixed and Mobile Signalling lines of businesses.

Jogesh holds a BEng (Hons) in Software Engineering from the University of Sheffield, an MSc in Telecommunications from UCL and is currently completing an EngD in Communications at UCL. Jogesh is a member of the British Computer Society and a Chartered IT Professional.

## MAP OF INSTITUTE FOR MANUFACTURING LOCATION

