



Wireless Healthcare SIG  
'My HealthKit Toolbox'  
12<sup>th</sup> March 2015

Kindly hosted by TTP and lunch sponsored by Uniquedoc

The Wireless Healthcare SIG is championed by Rob Blake of **Philips Research UK**, Peter Ferguson of **ARM**, Collette Johnson of **Plextek Consulting** and Paul Winter of **TTP**. This event is supported by the **Eastern Academic Health Science Network and Health Enterprise East**.

Venue: TTP Group, Melbourn Science Park, Melbourn Hertfordshire, SG8 6EE

## AGENDA

**12:00** Registration and networking over lunch

**13:00** Introduction to Cambridge Wireless Healthcare SIG from **Paul Winter** of **TTP**

**13:10** Welcome from the host, **Richard Walker, Head of Wireless Communications Group, TTP Group**

**Sessions chaired by SIG Champion, Rob Blake of Philips Research**

**13:15** 'What the HealthKit is this?!'

**Steve Gowers, TTP Group**

Steve explores the usability challenges as the line between personal fitness trackers and healthcare provision becomes increasingly blurred. With the number of apps and connected devices around the new Healthkit and Google fit platforms set to increase dramatically, how can we ensure patient safety and actually engage people to change behaviours?

**13:30** Q&A

**13:35** 'Secure Collaboration and Communication for Health'

**Brian Whittle, Uniquedoc Ltd**

The talk will cover the basic concept of Uniquedoc and the pain points in Health Care Communication we have been focused on solving. I will then discuss next steps for Uniquedoc.

**13:50** Q&A

**Sessions chaired by SIG Champion, Peter Ferguson of ARM**

**13:55** 'Patient-Controlled Records Disrupting Electronic Health Records'

**Dr Mohammad Al-Ubaydli, CEO, Patients Know Best®**

Electronic health records have the wrong architecture for integrated care. Patient portals are EHRs' well-meaning but still incorrect solution to integrated care. Patient-controlled records are the only answer. Yet Google, Microsoft and now Apple have fumbled the opportunity by leaving out the professionals. But the disruption of EHRs by PCRs has already happened – and this talk will show this with real-world examples.

**14:10** Q&A

**14:15** Refreshment and Networking

**14:45** 'Health Apps - Will they save the NHS?'

**Julie Bretland, Founder, Our Mobile Health**

This presentation will cover an overview of the health apps market and provide an insight into some of the innovations we're seeing as well as some of the barriers to uptake and some potential solutions.

**15:00** Q&A

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**15:05 Session chaired by SIG Champion, Paul Winter of TTP**

**'HealthSuite Digital Platform'**

**Paul Thijssen, Philips**

In order to connect systems (and devices) to seamlessly exchange health data across the continuum of care, from professional healthcare delivery to remote continuous personal health solutions, Philips has launched HealthSuite Digital Platform, an open ecosystem of connected mobile and sensor-enabled devices. In this talk I will give a high level overview of this platform and use it as a basis to discuss insights.

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**15:20 Q&A**

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**15:25 Introduction to Group Sessions by Rob Blake of Philips**

- Group A: **The young drive fitness and healthcare future** - Facilitated by **Paul Winter**
  - Group B: **"OK Madam I've input your results into my app, let me confirm the diagnosis with my colleague in Brazil"** - Facilitated by **Rob Blake**
  - Group C: **The electronic medical record is dead; long live the patient controlled medical record** - Facilitated by **Peter Ferguson**
  - Group D: **Building the future HealthSuite Platform** - Facilitated by **Michael Barkway**
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**15:35 Group Session One**

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**16:05 Change Group Session**

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**16:15 Group Session Two**

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**16:45 Comfort break**

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**17:00 Session Chaired by Paul Winter of TTP**

**Group Reports from the Facilitators and Open Discussions**

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**17:30 Closing Remarks from Rob Blake of Philips Research**

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**17:35 Fill in Evaluation Forms and Event Closes**

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

## Profile of organisers

### Cambridge Wireless (CW)

CW is the leading international community for companies involved in the research, development and application of wireless and mobile, internet, semiconductor and software technologies. With 400 members from major network operators and device manufacturers to innovative start-ups and universities, CW stimulates debate and collaboration, harnesses and shares knowledge, and helps to build connections between academia and industry. CW's 19 Special Interest Groups (SIGs) provide its members with a dynamic forum where they can network with their peers, track the latest technology trends and business developments and position their organisations in key market sectors. CW also organises the annual Future of Wireless International Conference and Discovering Start-Ups competition along with other high-quality industry networking events and dinners. With headquarters at the heart of Cambridge, UK, CW partners with other international industry clusters and organisations to extend its reach and remain at the forefront of global developments and business opportunities. For more information, please visit [www.cambridgewireless.co.uk](http://www.cambridgewireless.co.uk)

## Profile of host

### TTP Group

TTP has been at the forefront of wireless technology development for decades, creating products and applications for both consumer and business markets. TTP played a pivotal role in the development of digital GSM and, hidden from view, there is TTP innovation inside many of the wireless communications devices now familiar to us all. Our breadth of capability is unusual, from understanding the market opportunity for a new product or service, to the detailed realisation of the technology including: antennas; radio frequency engineering; software stacks; apps; complete devices; systems and networks. We are creating new generations of products at the intersections between medicine, wellness and wearable's. Market leading companies, regulators and service providers have all engaged TTP to help create the future of communications. For more information please visit: [www.ttp.com](http://www.ttp.com)

## Profile of lunch sponsor

### Uniquedoc Ltd

Uniquedoc is an integrated collaboration platform built exclusively to enable healthcare professionals to confidentially connect across the world from any device that they choose. The natural inclination of every medical professional will always be to push the barriers of healthcare provision. At Uniquedoc, we believe technology has to empower this, not inhibit it. Uniquedoc has been built from the ground up for the needs of healthcare professionals, so they don't need to worry about confidentiality and can focus their resources on the thing that matters most: improving patient care. Uniquedoc moves healthcare collaboration into a global environment. It frees organisations from the worries of system integration by incorporating a world-class cloud-based solution and opens up new possibilities for healthcare professionals. For more information please visit: [www.uniquedoc.com](http://www.uniquedoc.com)

## Profile of supporters

### Eastern Academic Health Science Network



The EAHSN has been set up to promote the adoption, diffusion and spread of innovation into and throughout the NHS in the Eastern region. Our aim is to use innovation to reduce unwarranted variation in service provision, help improve health services for the next generation and secure a positive impact on patients and the economy. Drawing on this, and our successful innovation hub and Small Business Research Initiative (SBRI) programmes, we will grow wealth and economic value, leveraging sustainable improvements in healthcare. For more information please visit: [www.eahsn.org.uk](http://www.eahsn.org.uk)

### Health Enterprise East



Health Enterprise East (HEE) is the NHS partner organisation for Innovation. We are committed to improving healthcare through supporting the development of innovative new products and services which meet the needs of the NHS. HEE provides a broad range of services to NHS organisations, providing expert advice, funding and support to NHS innovators to translate their ideas into practice. Operating within the NHS, HEE also provides consultancy services to technology based companies looking to access the UK market. HEE works with clinical key opinion leaders and senior NHS managerial, commissioning and procurement staff on a daily basis. Our NHS market assessments provide vital information for companies to ensure that their products are well targeted to the technical and business needs of the NHS, speeding up adoption of new technology by the NHS. For more information please visit: [www.hee.org.uk](http://www.hee.org.uk)

## Profile of SIG Champions

### Rob Blake, Philips Research UK

Robert Blake is a Senior Scientist at Philips Research, Cambridge. Philips has recently established their UK Research presence in the town, showing a commitment to Research, the UK and Cambridge. At Philips, Robert has worked on mobile and wireless applications, focussing on usability and acceptability issues relating to the technology. Initially he worked on location and context aware applications, using mobile phones and Bluetooth to deliver services to users. Robert was involved in the early days of Near Field Communications (NFC) where he worked on applications for this new technology and built some of the first NFC-enabled mobile phone prototypes. A major focus of the work was building and promoting novel contactless applications, including using NFC to establish a Bluetooth connection. More recently he has been investigating the application of mobile and wireless technology for home healthcare and wellbeing. One of the projects he is working on is SAPHE (Smart and Aware Pervasive Health Environment), aiming to provide a next generation telecare system for improving the quality of people's lives. Robert holds a MEng in Software Engineering from Imperial College London and is fluent in German. In his spare time he enjoys photography and is a keen cyclist. For more information please visit: [www.research.philips.com](http://www.research.philips.com)

### Peter Ferguson, ARM

Peter is a Principal Project Manager in ARM, Cambridge. Peter has lived in Cambridge for 15 years. He has a MSc and PhD in Medical electronics. Peter has held key Technical and management responsibility for development projects including the world's first Self-Adhesive Physiological monitor and the delivery of over 20 Global Smartphones. In his recent career Peter has provided mobile technology consulting for the NHS, UK Health research and government hospitals in China. As a Champion of the Cambridge Wireless Healthcare SIG Peter's objective is to demonstrate and present the application of Global Mobility Health for ARM and its partners. For more information please visit: [www.arm.com](http://www.arm.com)

### **Collette Johnson, Plextek Consulting**

Collette works for Plextek Consulting in medical business development, helping companies with their strategic positioning relating to product development. Previous to working at Plextek she worked at NHS innovations with a lead role in bringing together industry and clinical organisations for product adoption and also was the programme lead for the national SBRI healthcare programme, whilst in this role she focussed on the mHealth and telehealth space and developed a network bringing together, industry, clinical and academic stakeholders. She also worked in a strategic role in healthcare at Cambridge Consultants for world leading corporate organisations and highly innovative start-ups. For more information please visit: [www.plextek.com](http://www.plextek.com)

### **Paul Winter, TTP**

Paul Winter is a programme manager and RF engineer in the Communications and Wireless group at TTP. He has led numerous projects in commercial, industrial and healthcare sectors developing connected devices and precision instrumentation. Paul has a heritage in developing products integrating multiple wireless standards including GPS, GPRS, Wi-Fi, Bluetooth and proprietary ISM band radios, deployed within multi-sensor systems for in-home and on-body applications, often coupled to 'Cloud' based analysis and visualisation services. In healthcare Paul has applied aspects of wireless, antennas and electronics to a number of medical devices including inhalers, glucose testing and point of care diagnostic instruments. Paul has also led several incubation projects for TTP's Carbon Trust Incubator, covering a wide range of cutting edge technologies. Paul joined TTP in 2006; prior to this he worked as a radio engineer for Global Communications developing high volume consumer in-home satellite and digital TV distribution equipment, as well as portable equipment for the 'on-location' broadcasting industry. Paul has a Masters degree in Electrical & Electronic Engineering from the University of Wales, Cardiff. He is a member of the Institute of Engineering and Technology, the Royal Academy of Engineering and is a Chartered Engineer. For more information please visit: [www.ttp.com](http://www.ttp.com)

## **Profile of speakers**

### **Steve Gowers, TTP**

Steve leads the Human Factors & Design Research activities at TTP and is responsible for helping to optimise the user experience and usability of TTP's technology and product innovations. For more information please visit: [www.ttp.com](http://www.ttp.com)

### **Brian Whittle, Global Head of Business Development, Uniquedoc Ltd**

Brian is an Olympian and former European Champion athlete, now the Global Head of Business Development for Uniquedoc Ltd with a strong track record in taking young businesses to market. For the last 6 years he has focused in the new technology market, primarily on collaboration and communication platforms. His drive and enthusiasm derives from his Olympian days where his attitude of 'there is always a solution' has helped Uniquedoc develop to the point of launch. For more information please visit: [www.uniquedoc.com](http://www.uniquedoc.com)

### **Dr Mohammad Al-Ubaydli, Founder & CEO, Patients Know Best®**

Mohammad has over 15 years of experience in medical software. He trained as a physician at the University of Cambridge; worked as a staff scientist at the National Institutes of Health; and was a management consultant to US hospitals at The Advisory Board Company. He is the author of seven books, including Personal health records: A guide for clinicians and Streamlining Hospital-Patient Communication: Developing High Impact Patient Portals. He is also an honorary senior research associate at UCL medical school for his research on patient-controlled medical records. In 2012 he was elected an Ashoka Fellow as a social entrepreneur for the contributions he has made to patient care. For more information please visit: [www.patientsknowbest.com](http://www.patientsknowbest.com)

### **Julie Bretland, Founder, Our Mobile Health**

Julie Bretland has been developing launching and managing innovative mobile services for nearly 20 years for big corporates such as Ericsson and Vodafone as well as start-ups across Europe and Africa. Julie studied for her MBA at London Business School, as a recipient of the prestigious Celia Atkin Advent scholarship. She was a winner of the Deloitte's Institute of Innovation and Entrepreneurship Founders Award, is a founding member of the GSM Associations 'Connected Women' programme, co-founder of the Digital Health Professionals Network and a member of the expert panel of the London Mayor's Health Commission. She is the founder of Our Mobile Health, set up with the aim of harnessing mobile technology to help us lead healthier lives, by providing a curated application store to promote the best of the best mobile health applications. For more information please visit: [www.ourmobilehealth.co.uk](http://www.ourmobilehealth.co.uk)

### **Paul Thijssen, Senior System Architect, Philips**

Paul joined Philips 21 years ago and has been working on first-of-a-kind product development in the areas of consumer electronics, semiconductors, automotive, healthcare and lighting. He has been the technical lead for products ranging from Philips' first generation DVD Player to the world's first Digital PET/CT Scanner. More recently he has been active in home healthcare and Philips' digital health platform aspirations. For more information please visit: [www.research.philips.com](http://www.research.philips.com)