

Wireless Healthcare SIG

'What future evolution of remote monitoring in the community will speed up its impact on hospital admission and bed occupancy?'

4th October 2016

Hosted by: **utc cambridge**  University
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Health Partners

This SIG is championed by **Peter Ferguson** of **ARM**, **Collette Johnson** of **Plextek Consulting**, **Primrose Mbanefo** of **Accenture**, **Paul Winter** of **TTP** and **Rob Blake** of **Philips**,

Venue: UTC Cambridge, Robinson Way, Cambridge CB2 0SZ

AGENDA

17:45 Registration & Refreshments

18.15 Introduction to the CW Wireless Healthcare SIG from Peter Ferguson, Director Healthcare Technology, ARM

18:20 Welcome from our sponsor, Hans Hagen, COO, Cambridge University Health Partners (CUHP)

Session chaired by Peter Ferguson of ARM

18:30 'Technology innovation in community care: trying to make sense of an irrational system'

Dr James Morrow BM BCh LLB, GP & Managing Partner, Granta Medical Practices.

NHS secondary, primary and community care remain disjointed and fragmented. Technology is poorly utilised and insufficiently integrated.

Existing structures make innovation through the NHS challenging, but the opportunities for improved care are real.

James will set out his assessment of both the opportunities for using remote monitoring in the community and the problems with assuming that the NHS is rational when it comes to new technologies.

18:45 'Winter is now all year round – just how do we cope?'

Evelyn Barker, Interim Chief Operating Officer, Cambridge University Hospitals

Across England 'winter pressure' on acute hospitals has showed no signs of diminishing over summer months. Increasing numbers of paediatric and over 85 year olds are presenting at our ED & requiring admission - the hospital running 'hot' with bed occupancy at >98 % most days.

Evelyn will outline the challenges of predicting capacity requirements for elective & non-elective admissions.

19:00 'Cambridgeshire assistive technology and telehealthcare: past , present and future'

Lucy Forrest, Assistive Technology Manager, Cambridgeshire County Council

Lucy will give an overview of what CCC have done historically, how they are currently working and their aspirations for the future.

19:15 'Health informatics and advanced analytics in the pharmaceutical industry'

Sajan Khosla, Head of Health Informatics, Astra Zeneca

A brief tour through the data, decisions and analytics that are accelerating innovative medicines to patients. The talk is geared towards thinking about data, how we currently use it and question whether we make the most use of it today

19:30 Q&A and Open Discussion, chaired by Peter Ferguson of ARM

20:00 Drinks reception

20:30 Event Closes

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

Organisers

Cambridge Wireless (CW)

CW is the leading international community for companies involved in the research, development and application of wireless & 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

Host

UTC Cambridge

UTC Cambridge offers an outstanding education for young people aged 14-19, who show particular interest or aptitude in the fields of science, technology, engineering and maths. Students follow GCSE, BTEC or A Level courses and experience unrivalled opportunity to engage with leading employers working on projects that allow academic learning to be applied in practice.

Sponsors

Cambridge University Health Partners

Cambridge University Health Partners (CUHP) is one of six Academic Health Science Centres in England whose mission is to improve patient healthcare by bringing together the NHS, industry and academia. By inspiring and organising collaboration, CUHP aims to ensure patients reap the benefits of the world class research, clinicians and industry which are based in Cambridge. The Partners include: University of Cambridge, Cambridge and Peterborough NHS Foundation Trust, Cambridge University Hospitals NHS Foundation Trust and Papworth Hospital NHS Foundation Trust.

SIG Champions

Peter Ferguson, ARM

Peter is Director for Healthcare Technologies in ARM. 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

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

Primrose Mbanefo, Accenture

Primrose is based in Cambridge and works for Accenture Mobility Delivery, part of Accenture Digital. Accenture is a global management consulting, technology services and outsourcing company, with more than 323,000 people serving clients in more than 120 countries. Primrose is part of Accenture Digital's health initiatives. She provides engineering insight and delivers embedded software solutions for offerings developed by these initiatives. For more information please visit: www.accenture.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

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

Speakers

Dr James Morrow BM BCh LLB, GP & Managing Partner, Granta Medical Practices.

James is a GP and managing partner of Granta Medical Practices, a South Cambridgeshire general practice group, delivering primary care, pharmacy, diagnostic and treatment services. Rated outstanding by the CQC, the practice is growing rapidly and will soon cover some 36,000 patients.

James trained in medicine at Cambridge and Oxford, and also has an LLB. He co-founded and ran an independent sector medical screening company and was the founder chair of Assura Cambridge LLP. James is a senior clinical tutor for the University of Cambridge, an alumnus of the Judge Business School and past president of the Cambridge Medical Society. For further information, please visit www.sawstonmedicalpractice.co.uk/

Lucy Forrest, Assistive Technology Manager, Cambridgeshire County Council

Lucy Forrest graduated from Bradford University with a BA Hons in Peace Studies in 2001 and completed a Post-Graduate Certificate in Management at Anglia Ruskin University in 2004 whilst working for the British Heart Foundation. Lucy went on to work in supported housing before starting work as a Care Manager in Cambridge Older Peoples Services. Lucy quickly took the opportunity to second to the newly formed Assistive Technology Team and remained in the service for nine years. In 2010 Lucy qualified as a Social Worker and completed post graduate studies at The University of East Anglia. After qualifying, Lucy then joined the Children's Services in Cambridge in 2013 as a Social Worker. Whilst in this post she completed an Advanced Certificate in Systemic Practice with Families with The Institute of Family Therapists. In December 2015, Lucy took up her current post as the Assistive Technology and Telehealthcare Team Manager for Cambridgeshire County Council. Lucy believes passionately in the potential assistive technology has to promote people's independent living and improve their quality of life. For further information please visit www.cambridgeshire.gov.uk/careandsupport

Evelyn Barker, Interim Chief Operating Officer, Cambridge University Hospitals

Evelyn is responsible for overseeing the effective daily management and performance of the Trust against local and national standards, and for the financial stewardship of the Trust's clinical services.

Evelyn began her career as a clinical pharmacist working in a number of London hospitals before becoming chief pharmacist at Heatherwood and Wexham Park Hospital. She progressed through a number of operational divisional management roles ultimately becoming acting CEO in 2009.

As well as holding the substantive post of chief operating officer / deputy CEO at Gloucestershire NHS Foundation Trust, Evelyn brings a wealth of experience as an interim executive with over 10 years' at executive board-level for foundation trusts across the country. For further information please visit www.cuh.org.uk

Sajan Khosla, Head of Health Informatics, AstraZeneca

Sajan is currently head of health informatics at AstraZeneca where his objective is to be pivotal in disseminating all information to improve health outcomes in the population. Prior to that he has spent 10 years in clinical informatics, including with University Hospitals Birmingham and various roles with AstraZeneca. Sajan has contributed to the Journal of the Royal Society of Medicine's assessment on weekend admissions to hospital.

Sajan holds a Bsc in Genetics, an MSc in Bioinformatics and a PhD in Public Health and Epidemiology. For further information, please visit www.astrazeneca.com