



SurgTech 2022

Smart, Digital, Sustainable

Wednesday 23rd Novemebr 2022 Royal Armouries Museum Leeds

Time:	Item:	Session
09:30	Registration opens	
09:55	Welcome	
10:00	Policy Keynote Speakers: - Digital - Smart Technologies - Sustainable Technologies	Speakers: - Mark Chapman, Interim Director of Medical Technology, NICE - Matt Chapman, Knowledge Transfer Manager – KTN, Innovate UK - Pete Waddingham - NetZero Lead, AHSN Network
11:00	Industry Showcase Session: - Digital - Smart - Sustainable	Presentations from industry on ground-breaking initiatives and innovations Digital - TBC Smart – presented by Stryker (<i>title to be confirmed</i>) Sustainable – Tom Dawson, Revolution ZERO - Developing and promoting more environmentally, socially and economically sustainable medical textile solutions
11:30	Refreshment Break	
12:00	Clinical & Academic Showcase Session: - Digital - Smart - Sustainable	QMS Consultancy - Medical Device Regulations for Digital Technologies Smart - QuantIC single fibre endoscope – exploring clinical applications Sustainable - Barriers to delivery & implementation for sustainable green surgery
12:30	Surgical MIC Case Studies	- VastMindz - <i>Contactless remote photoplethysmography for vital sign monitoring</i> - HyperVision Surgical – <i>Guiding the future of surgery using AI-powered hyperspectral imaging</i> - <i>To be confirmed</i>

13:00	LUNCH	<p>During lunch delegates can:</p> <ul style="list-style-type: none"> • Attend Lunch & Learn regulatory workshops hosted by QMS Consultancy and get advice for their technology. • Attend technology demonstration sessions • Visit exhibition stands
14:00	Technology Keynote Speakers: - Digital - Smart Technologies - Sustainable Technologies	Speakers: - Dr Owen Johnson , Assistant Professor in Digital Health, University of Leeds - Prof Philip Breedon , Professor of Smart Technologies at Nottingham Trent University - Prof Shahin Rahimifard , Professor of Sustainable Engineering at Loughborough University
15:00	Surgical MIC Drop-In Session	<p>Access advice and guidance in any of the following roundtable sessions:</p> <ul style="list-style-type: none"> - Health Economics - Clinical trials and qualitative evaluation for MedTech - Leeds Innovation Pop Up - Patient & Public Involvement - eg Technology - <i>Refining your route to market: a pathway for the design & development of medical devices.</i>
16:00	Surgical MIC Case Studies	- Medical Intelligence Group Ltd - <i>Using AI and computer vision to drive down ulcer prevalence across people with diabetes</i> - SamanTree Medical SA - <i>Confocal microscopy for immediate margin assessment during surgery</i> - <i>To be confirmed</i>
16:30	CLOSE	





Matt Chapman

Innovate UK KTN

Matt leads on Medical Technology within the Health team at Innovate UK KTN, working closely with colleagues in the adjacent and increasingly converging fields of digital health and medicines, as well as with colleagues from other KTN teams (particularly manufacturing, materials and investment). He also leads KTN's place-based activity in the North West of England, convening colleagues from across the Innovate UK family of organisations to work together more effectively and to share best practice.



Philip Breedon

Nottingham Trent University

Philip Breedon is a Professor of Smart Technologies and leads the Medical Engineering Design Research group at NTU. He gained his PhD in robotics and AI and is a Chartered Engineer and a Chartered IT professional. He is a member of the UK's Department of Health National Institute for Health Research invention for innovation funding panel (NIHR i4i) and the Royal College of Surgeons MSK Robotic and Digital Surgery Subgroup. His research interests focus on wearable technologies, 3D/4D printing for medical applications, rehabilitation technology, surgical robotics, cardiovascular devices, extended reality technologies and environments, the surgical pathway and investigative research related to the utilisation of 'smart materials' for medical applications. Through promoting his work and research activities he now works with a number of surgeons and clinicians across Europe and has given keynote lectures at the NSpine International conference on both surgical robotics and additive manufacturing. He was invited, and consequently visited six NASA centres across the USA to discuss potential collaborative research opportunities and to examine the latest materials and technology research and its applications; more recently this included the NASA Glenn Research Center.



Mark Chapman

NICE

Mark joined us in 2022 as interim director for medical technology and digital evaluation. This includes diagnostics, digital and medtech that can be implantable or assistive. Mark has 30 years of experience in the medtech arena. He initially trained as a Clinical Physiologist, and worked for 10 years within the UK NHS, Tertiary Cardiac Care, with a specialist interest in complex cardiac devices. Moving into Industry in 2001, holding various clinical and commercial roles. In parallel, he has held roles, including committee member on our technology appraisal programme. Is a past member of the External Advisory Board, University of Leeds EPSRC Centre for innovative Manufacturing of Medical Devices. Mark has also undertaken secondment within the UK Government, Office for Life science, Department of Business, as MedTech Policy Advisor. Since 2014 Mark was the Director of Health Economics and Commissioning for UK & Ireland at Medtronic.



Shahin Rahimifard

Loughborough University

Shahin Rahimifard is a Professor of Sustainable Engineering at Loughborough University and the Founder and Director of the Centre for “Sustainable Manufacturing And Recycling Technologies (SMART)” [www.centreforsmart.co.uk]. His research work is focused on sustainability issues throughout a ‘Product Lifecycle’, including projects on sustainable product design, resource efficient manufacturing, sustainable business models, and reuse and recycling technologies. These projects have benefited from involvement of several high-profile global manufacturers and retailers, which include Rolls-Royce, Jaguar Land Rover, GM, NB, Nike, Clarks, Next, Unilever, PepsiCo, Marks and Spencer, and Tesco. Professor Rahimifard is the Principal Investigator of a recently funded project (2022-2025) by the Physical Science and Engineering Research Council (EPSRC), focused on establishing circular economy for small medical devices. This is a collaborative project between Loughborough University and University of Leeds, as well as 7 industrial partners and NHS trusts. He is the Editor-in-Chief of the ‘International Journal of Sustainable Engineering’ [<https://www.tandfonline.com/toc/tsue20/current/>] and has over 200 refereed publications associated with his work.





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