SENSING AND IMAGING FOR DIAGNOSTICS, DETECTION & MONITORING

Thursday 28 February 2019
Notts County Football Club, Meadow Lane
Nottingham, NG2 3HJ

MEDILINK EAST MIDLANDS

PART FUNDED BY:
European Union
European Regional Development Fund

PROFESSOR STEVE MORGAN, ACADEMIC DIRECTOR, CENTRE OF HEALTHCARE TECHNOLOGIES

Stephen Morgan is Professor of Biomedical Engineering at the University of Nottingham and is Academic Director of the Centre for Healthcare Technologies. His research involves the development of devices to monitor the microcirculation specifically in tissue breakdown and wound healing. He is a Royal Society Industry Fellow, the Principal Investigator of the EPSRC funded Cyclops Networkplus and a co-investigator of the Medical Devices and Vulnerable Skin Networkplus.

DR JON AYLOTT, HEAD OF DIVISION – ADVANCED MATERIALS AND HEALTHCARE, THE UNIVERSITY OF NOTTINGHAM

Jonathan Aylott gained his degree and PhD in Chemistry from the University of East Anglia. He then undertook a Postdoctoral Fellowship in Raoul Kopelman's laboratory at the University of Michigan. In 2000, he returned to the UK to take up a Lectureship in Analytical Science at the Department of Chemistry, University of Hull. In 2004 he was appointed Lecturer in Analytical Bioscience in the School of Pharmacy at Nottingham and promoted to Associate Professor in 2011. He is currently Head of the Division of Advanced Materials and Healthcare Technologies in the School of Pharmacy at Nottingham. Jon's research interests focus on the design, development, manufacture and implementation of miniaturized analytical devices. He is a member of the EPSRC Manufacturing Hub for Future Targeted Healthcare, leading the Nottingham spoke.

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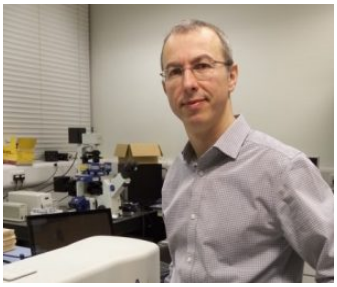
PROFESSOR IOAN NOTINGHER, THE UNIVERSITY OF NOTTINGHAM



Ioan graduated from Babes-Bolyai University Cluj-Napoca (Romania), PhD at London South Bank University (Photophysics Research Group), followed by postdoctoral research at Imperial College London and Edinburgh University.

He was appointed lecturer in 2006 at the University of Nottingham, where he has established the Biophotonics Group. His research focuses on optical microscopy and spectroscopy techniques for label-free molecular imaging of biomaterials, cells and tissues.

He currently holds an EPSRC Fellowship and has been elected a fellow of the Institute of Physics (IOP) in 2017 and senior member of the Optical Society of America (OSA). He is an Associate Editor of the OSA Biomedical Optics Express journal and past Associate Editor of the Journal of Biological Engineering and the European Physical Journal - Techniques and Instrumentation. Ioan is a committee member of the IOP Optical Group and steering committee on Biophotonics of EPIC (European Photonics Industry Consortium).

SIMON MCCASTER, SCIENTIST, FOOTFALLS & HEARTBEATS

is the Founding Scientist of Footfalls and Heartbeats Ltd and has many years' experience in researching smart textile structures and the nanoscale interactions of these micromechanical structures. He is currently an Honorary Associate Professor at the University of Nottingham and is the named inventor on five patents related to knitted textile sensors.

My research has centered on a multidisciplinary approach involving textile engineering, electrical engineering, tribology and nanoscale molecular modelling.

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DR PHILIP QUINLAN, HEAD OF DIGITAL RESEARCH, THE UNIVERSITY OF NOTTINGHAM

Dr Philip Quinlan has developed a career in data systems for biomedical research and currently is the Head of the Digital Research Service at the University of Nottingham. The digital research service is an exciting core service supporting researchers from across the University and goes far beyond biomedical research and includes building data pipelines to support the dairy herd on the University farm to helping to establish the UKs best HGV from data collected in telematrix boxes. All the work has a data challenge and stems from the Advanced Data Analysis Centre (ADAC). A flagship project of ADAC is to provide the leadership of the UKCRC Tissue Directory and Coordination Centre (BBMRI.uk) and Dr Quinlan is the Director. The main output from this project is the development of the UKs first Tissue Directory that is cross-disease. Dr Quinlan has become the Director of the UKCRC Tissue Directory and Coordination Centre having worked on database and operational systems to support biobanks since his graduation in Applied Computing in 2004.

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DR XIN CHEN, ASSISTANT PROFESSOR, THE UNIVERSITY OF NOTTINGHAM

Dr. Xin Chen is an Assistant Professor in Computer Science at the University of Nottingham. Prior joining the University of Nottingham, he has worked at the University of Manchester and King's College London as a research fellow. His research interests are image processing, computer vision and machine learning, particularly applied to medical image analysis.

LUKE SIENA, RESEARCH FELLOW, NOTTINGHAM TRENT UNIVERSITY

Luke Siena is a Research Fellow based in the Medical Engineering Design Research Group at Nottingham Trent University focusing on Medical Product Design. He received his BSc (Hons) in Computer Aided Product Design, MSc in Smart Design and PGDip in Professional Research Practice at Nottingham Trent University between 2008–2016. Luke recently defended his PhD thesis focused on implementing smart materials and technologies for medical emergency airway access devices.

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PROFESSOR DAN CLARK, NOTTINGHAM UNIVERSITY HOSPITALS NHS TRUST

Dr Dan Clark leads the Clinical Engineering service in Nottingham, one of the largest in Europe and provides the full scope of equipment services including: device evaluation, commissioning, service and maintenance, decommissioning and disposal Dan also leads an innovation and research unit that designs and produces novel medical devices plus a healthcare technology evaluation and adoption service (CHEATA – the Centre for Healthcare Equipment And Technology Adoption). Dan has an honorary chair in the Faculty of Engineering at the University of Nottingham where he supports a range of healthcare-related engineering research groups. He manages the Trust's Medical Devices Group and sits on a number of trust-wide risk committees. He is the Co-director of the Centre for Healthcare Technologies, a collaborative venture between Nottingham University and Nottingham University Hospitals NHS Trust specialising in the acceleration of curiosity driven science into adopted medical technology. He is a member of NICE's Medical Technology Advisory Committee, a member and Treasurer of the IFMBE (International Federation and Medical and Biomedical Engineering) Health Technology Assessment Division Board and a collaborating member of the IFMBE Clinical Engineering Division. Dan is also the Vice Present – International of IPEM (the Institute of Physics and Engineering in Medicine).

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PROFESSOR BARRIE HAYES-GILL, THE UNIVERSITY OF NOTTINGHAM

Barrie is Professor of Medical Electronic Devices at The University of Nottingham.
Following the filing of 2 patents in 1999 and 2002 Barrie spun out Monica Healthcare specialising in wireless fetal and maternal monitors. Here he was Research Director obtaining considerable experience in both CE (MDD 93/42) and FDA medical devices regulatory process. Significant sales around Europe and USA followed leading to Monica's eventual acquisition by GE Healthcare in March 2017.
Another area of Barrie's work involved the deployment of LED's for the determination of heart rate of newborns. This patented work created a second spin out company called Surepulse Medical. Barrie has published over 300 papers, has a grant income exceeding £15M, has filed over 15 patents, is a past head of Electrical and Electronic Engineering Department at the University of Nottingham, is a Fellow of the Institution of Engineering and Technology (FIET), a Chartered Engineer and is an Expert Witness for NHS maternity labour and delivery cases.

DR RAMAN MINHAS, UNIVERSITY OF NOTTINGHAM

Dr Raman Minhas has advised on over $60 million healthcare transactions including VC and angel financing, in-out licensing, spin-outs, R&D collaborations and grant funding. He is currently Healthcare lead for Corporate Partnerships, University of Nottingham, where he focuses on R&D collaborations between industry and academia. Partners range from SMEs to large corporates. Previously he worked in senior management and advisory roles in medtech and biotech start-ups for 14 years. Previously he was a healthcare analyst at a technology investment bank in the City, London. He qualified as a medical doctor and practised clinical medicine for 6 years, including Accident & Emergency for 5 years.

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DR JAMES CARPENTER, CEO SUREPULSE LTD

James has been the CEO of SurePulse Medical since its inception in 2014. He is responsible for the company's strategic direction and investment. He has built the company up to 8 employees and taken its first product through CE regulatory audits, resulting in SurePulse being awarded the Medilink East Midlands Startup of the Year in 2018.
He is an electronic engineer by training. Prior to being CEO of SurePulse, he was a Research Fellow at the University of Nottingham in optical photoplethysmographic heart rate sensing, and undertook a PhD in high speed Laser Doppler Blood Flow Imaging, focusing on algorithms for accurate flow representation at high frame rates..

DR SARAH BOLTON, BUSINESS MANAGER, CHEATA

Dr Sarah Bolton joined CHEATA in 2016 as Business Manager and is responsible for the day to day running of CHEATA as well as contributing to the delivery of specific projects. She is an experienced research scientist with a background in academic and clinical research where she undertook her post-doctoral studies on inflammatory mechanisms in the brain and the lung. She joined AstraZeneca in 2004 as an Experimental Pathologist in the Respiratory and Inflammation Therapy area, specialising in COPD and asthma.

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