



International Society of Digital Medicine
(European Chapter)

E-Newsletter

June 2019

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Welcome to the June 2019 edition of the ISDM E-Newsletter. This month I will be sharing information about an exciting integrated healthcare project in Dorset and reviewing a number of conferences, exhibitions and seminars I have recently attended, including the AI in Healthcare Conference which took place at the University of Salford Manchester in April, the Medilink Seminar at the Open University on Diagnostics for Health and Wellbeing and the Medtech Innovation Conference at the Birmingham NEC held in May. I will also share my thoughts and recent experiences of development in the use of virtual reality in digital medicine.

Transforming Healthcare through Innovation – Our Dorset Project



In mid-April I was invited to a launch event to mark a new partnership between Dorset's health and care system and Bournemouth University which aims to transform healthcare through innovation. This event combined an exhibition with an evening seminar outlining Dorset's ambitions plans to create an integrated care system (ICS) to bring together a collaboration between Bournemouth University academics, the ICS leadership (NHS and Local Authorities) and executives from the digital and medical industries

Dorset's ambition is built on a recognition that the future health and wealth of the local community is inextricably linked and firmly underpinned by learning, research and innovation. I was excited to be involved at the early stages of a partnership designed to deliver improved healthcare outcomes, establish new partnerships for transformative innovation and build national interest in the pioneering role Dorset is playing in healthcare.

The invited audience included local leaders from the NHS and local government, Bournemouth University, commerce and industry (including the pharma, medical technology, biotechnology and digital sectors) along with members of the Departments of Communities and Local Government (DHCLG) and Business, Energy and Industrial Strategy (BEIS) and Innovate UK.

The partnership initiatives described included Research Active Dorset, a Living Lab Science Park and Medical Academy plans. The whole event was inspiring and a pointer to the importance of genuine partnerships between local government, health services, industry, education and local communities. The project resonated very much with my experiences over the last 20 years of the use of technology, innovation and collaboration as an engine for community based social and economic development.

For more information about the project, contact Phil Richardson of the Dorset CCG at Phil.Richardson@Dorsetccg.nhs.uk.

Artificial Intelligence in Healthcare Conference



Click on above picture for conference web site

The AI in healthcare conference took place at Salford University in Manchester. It was chaired by Dr Eleonora Harwich, Director of Research and Tech Innovation at REFORM who also presented some of her own experiences. Implementing AI within the NHS faces many challenges, not least because of a lack of understanding and a wariness concerning the likely impact of AI on jobs and patients.

This well-attended event gave a number of practical examples of how AI is being introduced into a number of areas within the NHS and I was especially interested in the use of AI for personal health management, a very important application designed to address some of the critical challenges faced by public health authorities across the globe.

Salford University are offering a number of CPD accredited courses – for more information, click on the image above.

Medilink Diagnostics for Health and Wellbeing Seminar

**DIAGNOSTICS FOR
HEALTH AND WELLBEING
DELEGATE INFORMATION PACK**

THURSDAY 9 MAY 2019

WOUGHTON HOUSE, NEWPORT ROAD,
WOUGHTON ON THE GREEN, MILTON KEYNES MK6 3LR



Medilink East Midlands organise a valuable range of seminars and events for their members. The Diagnostics for Health and Wellbeing seminar organised in collaboration with H&W PRA at the Open University was an event funded by the European Union ERDF ACTIS programme designed to develop innovation and enterprise and support links between SMEs and research. It also provided SMEs with an opportunity to make a short pitch about their own interests and aspirations and valuable networking time.

There were some fascinating and diverse presentations which included a talk by Dr Geraint Morgan, a space scientist working at the nearby Open University. As well as pioneering work in sensor technologies for space applications, including descriptions of how samples collected from the Comet Rosetta and the planet Mars are analysed, Geraint also commercialises some of his work

which helps to improve diagnostics for health and wellbeing. Thanks to this introduction to Geraint, I was able to organise a visit to his laboratory for visitors from the USA involved in earth observation.

Linking nicely to Geraint's presentation which illustrated how the sensitivity of electronic devices for "sniffing" chemical elements is continuously improving, the following presentation by Dr Clara Mancini of the Open University described research using dogs and bees heightened olfactory senses to detect medical conditions such as cancer.

For more details of Medilink events in the East Midlands, contact Jo Rudzki at jo@medilinkem.com.

Medtech Innovation Expo



Medilink UK is also actively involved in the annual Medtech Innovation Expo Conferences and Exhibitions. Med-Tech Innovation Expo is the UK & Ireland's leading event for medical design and manufacturing technology. I visited the exhibition on the second day of the event which was held at the National Exhibition Centre (NEC) near Birmingham. The exhibition focused on live demonstrations of the latest machines, technology, products and services from across the medical and healthcare sector.

The primary focus of an impressive array of exhibition stands seemed to be design and manufacturing for the healthcare sector, especially the growing use of 3D printing technologies to either prototype or manufacture devices and/or components used in healthcare. This conference and exhibition is a great event for keeping a finger on the pulse of the latest developments in the techniques and technologies used to create the healthcare and medical devices of the future.

For more information about the conference and exhibitors visit their web page at <https://med-techexpo.com/event/en/page/home>

EBME – Electronic and Biomedical Engineering Expo 2019



Click on above picture for conference web site

I also visited a very similar conference and exhibition at the Milton Keynes MK Arena. The focus at this event was less focused on manufacturing technologies and primarily concentrated on the increasingly sophisticated technologies used in hospitals and specialist clinics to diagnose and monitor patient health. This conference series began in 2009 and has developed a healthy following of speakers and exhibitors.

For more information about EBME, visit the web site at <https://www.ebme.co.uk/home/press/ebme-expo-3rd-4th-april-2019>

Virtual Reality Developments in Digital Medicine



I have been involved in games, simulations and virtual world applications for medicine and health applications for over 10 years, following their progress and developing connections with pioneers in the field. In the beginning of my time at the Serious Games Institute (SGI), the training of health professionals through the use of these technologies was one of the main drivers of serious games and simulations. The reasons for this were due to the costs and risks involved in dealing with emergency situations where it was either too risky, too costly or impractical to train medical staff to deal with situations that are rare and/or impossible to set up for training.

The Serious Games arm of Blitz Games were pioneers in this field and developed training simulations for a range of environments including training paramedics to triage patients after an explosion in a city centre. This simulation was one of the very first to be evaluated for its effectiveness compared to traditional methods which used dummies or actors. Although this was not a true immersive 360 degree virtual reality simulation, using a computer screen to respond and triage avatars, it is significant that the paramedics who took part in the evaluation mentioned total immersion in the scenario as a reason for its effectiveness.

Around this time, the SGI was using virtual world technologies like Second Life to explore the potential of virtual environments for simulation and learning and SMEs like Birmingham-based Daden were also pioneering these technologies, not only for training but also for visualising complex data in three dimensions.

Today, I have been continuing to use, explore and try to understand the role of virtual reality applications and VR headsets like the Oculus GO and am now seeing their potential not only for training, but also for diagnosis and treatment in some important health and wellbeing domains. The phenomenon which has only recently fully registered with me is the importance and value of the VR headset in such applications. Wearing a VR headset helps to create a valuable sense of immersion that helps the wearer to blot out distractions and focus on the immersive 360 video and sound environment.

I am currently evaluating a series of VR applications which have FDA clearance in the USA but are not yet available in the UK. These applications are designed to address a number of areas in the ageing society and mental health arena and not only help with training and rehabilitation but also with personal health management.

I am also exploring some of the latest uses of VR for clinical training and hope to report further on these areas in future newsletters.

If you would like to know more or are interested in a workshop/seminar, contact me at david@davidwortley.com

2nd World Summit on Hospital & Healthcare Management 2019



Allied Conferences invites all the participants from all the world to attend 2nd 'World summit on Healthcare and Hospital Management' during October 23-24, 2019, Tokyo, Japan. This invitation includes Keynote Presentations, Special Sessions, Workshops, Symposiums, Oral talks, Poster Presentations and Exhibitions.

The Healthcare congress aims to bring together the Healthcare Professionals, Healthcare Administrators, Physicians, and Healthcare specialists, Healthcare Workers, Healthcare Technicians, Primary care Providers, Professors and Students in all the areas of Healthcare & Technologies.

To learn more visit the summit web site at <http://healthcare.alliedacademies.com/about>

I am regularly invited to speak at international conference and/or submit articles for publishing to international journals and, for various reasons, I often have to decline these invitations but would like to build up a list of trusted speakers/researchers to be able to suggest. I am therefore inviting readers of this newsletter who are interested in speaking and/or publishing opportunities to contact me at president@isdm.eu

Upcoming Events

Date	Event	Location	Web Address
June 11-13	HIMSS Health 2.0 Conference Europe	Helsinki Finland	https://www.himsseuropeconference.eu/
June 27-28	UKCRF Conference 2019	Nottingham, UK	https://www.ukcrfnetwork.co.uk/conference/annual-conference-2019
July 4	Medilink East Midlands Innovation Day	Nottingham, UK	https://www.medilinkem.com/event/medilink-east-midlands-innovation-day-2019/
Sept 2-3	Global Conference on Nursing Care & Education	Rome, Italy	https://www.nursingcareconferences.com/
Oct 10-12	XPOMET	Berlin	https://xpomet.com/
Oct 15-16	GIANT Health Event	London	https://www.gianthealthevent.com/tickets
Oct 23-24	2nd World Summit on Hospital & Healthcare Management 2019	Tokyo	http://healthcare.alliedacademies.com/about
Nov 7-8	Microbiology, Immunology and Pathology	Bangkok, Thailand	https://www.gianthealthevent.com/tickets
Nov 13-14	5 th Annual R&D Data Intelligence Summit	Vienna, Austria	http://halcyongroup.eu/5th-annual-rd-data-intelligence-summit-november13th14th2019-vienna-austria/
Nov 13-14	International Conference on Integrative Biology and Medicine	Vienna, Austria	https://www.wisdomconferences.uk/Integrative-Biology-2019-vienna
Dec 4-6	Healthy IOT 2019	Braga, Portugal	http://healthyiot.org/

If you would like any presentations, videos or documents circulated to the ISDM network, I am happy to provide this service free of charge for any material relevant to readers of this newsletter. If you are interested, contact me at president@isdm.eu

Best Wishes

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