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TechCon 21

Virtual Conference

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09:00 – 16:55



9th JUNE 2021

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TechCon 21 Programme

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Learn about new products and state-of-the-art technological advancements from leading speakers across a wide spectrum of fields including MEG scanning, exoskeletons, FES, prosthetics, orthopaedic surgery, assistive technology and more.

Specialist barristers from Cloisters will introduce the speakers and guide the audience through a myriad of the most significant recent technological developments of relevance to practitioners undertaking personal injury and clinical negligence work.

Speakers will field questions regarding their presentations giving you the opportunity to learn something new and exciting regarding technological developments across a range of different disciplines.

We hope that you will join our virtual conference for this fantastic day of learning and take advantage of interacting with the speakers.

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The Versius Robot in 2021

This presentation looks at Robots in today's World and the real benefits of minimal access surgery.

Dr Mark Slack, Chief Medical Officer and Co-Founder, CMR Surgical

The Assessment of brain injury : An objective service from Innovision-IP

The historical challenge facing the legal profession in cases involving brain injuries has been the absence of reliable objective bio-markers to determine the presence or absence of injury. In cases concerning suspected mTBI, Judges, Claimants and Defendants alike have had to rely principally on the expert witness reports of those whose assessments are based principally on the external symptoms of injury. Where imaging tools such as MRI, CT and DTI are used, the challenge has been that these devices are not sensitive or specific enough to reliably diagnose the presence or absence of subtle or mild brain injuries. In this presentation, we describe a new approach to providing a tool for objectively non-invasively reporting on brain activity and determining if it is abnormal.

Innovision uses data collected from MEG (Magnetoencephalography) scanners, which since first invented in 1968 have recorded the magnetic signals generated by neural activity throughout the brain. Used by every leading academic brain research centre in the world (10 scanners operate in the UK) they allow scientists and clinicians to measure the microscopic functioning of the brain and in the case of diagnosing mTBI have been discovered to be able to distinguish those who have brain injury from those who have not. Innovision has built on this established academic research to develop a robust algorithm that in blind tests has revealed the presence, location and severity of mTBI. The talk will explain the science behind this technology and the applications of this transformative biomarker to the medico-legal world.

Professor Gary Green, Chief Scientist, Innovision-IP Ltd

Pelvic and acetabular trauma

The injury, problems and an update on longer term treatment options.

Mr Peter Hull, Lead Consultant Orthopaedic Trauma Surgeon, Cambridge University Hospitals Major Trauma Centre

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How an at-home tDCS device reduces depression without the need for medication.

Daniel will talk about Flow, a new wave of mental health treatment that empowers both patients on their depression journey. By combining tDCS in a compact headset with a behavioural therapy app for at-home use, Flow innovates traditional healthcare with technology to tackle complex mental issues with fewer side effects and increased accessibility; supporting both clinicians and patients.

Daniel Månsson, CEO and Co-Founder, Flow Neuroscience

FES / exoskeletons / latest tech for those with SCI / neurological conditions

Overview of latest technology to assist in the rehabilitation of those with SCI and other neurological conditions in the clinical and in the community environment including FES, exoskeletons and remote therapy systems.

Jon Graham, Clinical Director, PhysioFunction

Aquatic Physiotherapy in catastrophic injuries

This presentation will explore the unique properties of water and its benefits. It will examine the physiological effects of immersion specialised techniques, discuss case studies and research and highlight the different types of pools available.

Jacqueline Pattman, Chartered Physiotherapist, Clinical Specialist , Tutor & Consultant in Aquatic Physiotherapy

From Concept to Reality: The Total Solution for Rehabilitation

This presentation explains the Total Solution concept, where this has already been successful around the world and how Summit is working to bring the concept to the UK. The session will also include examples from some of the following customers: Morrello Clinic, The Brain and Spinal Injury Centre, Ascot Rehab, The Wellington Hospital, who are successfully integrating the latest rehabilitation technology into their care pathways in the UK.

Sara Brammall, Managing Director, Summit Medical and Scientific, UK Partners of Hocoma and Motek

A brief overview of wearable assistive technology

Andy Fell, Disability & Assistive Technology Consultant & Mike Gomm, Disability & Assistive Technology Consultant, Steve Martin Associates

Robotics in assisted living

Robots and autonomous systems have the potential to revolutionise the future provision of health and social care. In this talk I will discuss the potential but also the obstacles and concerns that still hinder the take-up and use of assistive robotic technology. I will provide an overview of relevant research activities, with a focus of EU and UK projects, and illustrate the facilities and the services provided by the UK National Robotarium, Heriot-Watt University. The overarching goal of our activities is the development of user-friendly independent living systems combining Internet of Things (IoT) and Robotic technology working together to assist humans, triage issues and facilitate communication and connectivity as part of personalised and connected health and social care practices.

Dr Mauro Dragone, Assistant Professor, Heriot-Watt University, National Robotarium

A Route to the open road

A presentation on the adapted vehicles including any new ideas and changes to adaptions that are offered and adapted motorhomes (living independence vehicles).

Niki Sinclair, Personal Transport Expert Witness, Personal Mobility Solutions

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From research to retail

An overview of innovations in therapeutic and functional technologies to increase independence. Innovations include Smart glass wheelchair control, Honda legs for function and current research results on vibration and immersive reality for functional movement.

Emma Linley, Clinical Specialist Occupational Therapist in Spinal Cord Injury & Expert Witness, Emma Way Associates

Advanced lower limb orthotics

An insight in to advanced orthotic device designs to influence lower extremity biomechanics to improve gait kinetics and kinematics. Elaine will overview the use of advanced materials, high end componentry, systems such as custom carbon posterior blade ankle foot orthosis and stance control knee ankle foot orthosis.

Elaine Nelson, Principal Orthotist, Blatchford Clinic

How advances in Prosthetics is now revolutionising the world of Orthotics

Matt will be exploring two orthotic products that have directly evolved from prosthetic advances. This presentation aims to focus on two devices that are being utilised to aid mobility in patients with both upper and lower limb paralysis or weakness.

Firstly the C-brace, a computerised orthotic knee joint which directly hails from the development of microprocessor knees and how this technology has been developed to aid mobility of spinal injury patients and many more.

Secondly the MyoPro an exoskeletal device designed to power elbow movement and simple hand open and close gestures for patients with loss of muscle power in their upper limbs, utilising technology harnessed from upper limb myo-electric prosthetic control systems.

Matt Hughes, Prosthetist/Orthotist & Managing Director, Dorset Orthopaedic

Bespoke wheelchair lifts for private residential properties

Sesame designs, builds and installs bespoke wheelchair lifts. This presentation will cover: paraplegic voice activated lift, private residential lifts, technical, Clients, 'people's lift' and examples of installations.

Alison Lyons, Director of Commercial Development, Sesame Access Systems Ltd

How to design the perfect bespoke sensory environment

Dan will focus on three key sensory areas; the room, hydropool and garden. He will explain how the company produce a unique design for their clients tailored to suit their requirements ensuring products provide them with the interactive input they need to progress learning and their overall development. Every new product developed is designed to ensure a flexible outcome to suit the clients changing mood and requirements, as the company recognise no one's mood or requirements ever remain the same over time. The company believe in designing the perfect space to maximise the development of their clients, with the use of their own interactive switches as well as ones the company have available. Client's and their carer/team are fully involved to provide a brief to which the company can then design the perfect sensory space. The products are manufactured and installed by the company itself thus ensuring quality control and the best service from start, to beyond completion.

Dan Ashmore, Sales Account Manager, Sensory Technology Limited

Smart Technology for Power Wheelchairs: Bringing Innovation to an Often Ignored Population

Consumers expect smart technology within every device , whether it's a toaster or coffee machine, yet wheelchairs continue to see zero innovation or adoption of new technology. Barry and Jered will discuss why innovation for people with disabilities has the potential to have positive impacts for everyone. They'll also share their background in what led them to create LUCI, the challenges they've faced bringing tech into a non-tech focused field, and how technology can change people's lives.

Barry Dean, CEO & Co-Founder & Jered Dean, CTO & Co-Founder, LUCI

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Representing in the UK



Innovative
rehabilitation
technology for upper
and lower limb

The Total Solution

for therapy and research

- 
- Start as early as possible
 - Train functionally
 - Intensity matters
 - Provide afferent feedback
 - Train beyond present capabilities
 - Patients actively participating and motivated

Help prepare your patients for daily life with the latest technology
that's backed by research and trusted by clinicians.

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