MeDe Innovation
EPSRC Centre for Innovative Manufacturing in Medical Devices

Time		
09.30	Registration and networking (tea and coffee available)	
10.00	Welcome and introduction	Professor Paul Hatton

Session A: Responsible Innovation and the Manufacture of New Medical Devices

10.15	Key Note 1 – The regulatory perspective	Dr Suzanne Halliday (BSI)
10.45	Key Note 2 – The clinical perspective	Professor Tim Briggs (Royal National Orthopaedic Hospital)
11.15	Key Note 3 - The industrial perspective	Professor Edward Draper (JRI)
11.45	PANEL Q&A	

12.00 ***1 minute poster elevator pitches***

A1	Investigate the drug release of electrospun PCL scaffold loaded with CAPE for breast cancer treatment	Farshid Sefat
A2	Processing of porous bioceramic scaffolds using Apatite-Wollastonite powders	Nilly Hojatoleslami
A3	Fabrication, Characterisation & Optimisation of Biodegradable Scaffolds for Vascular Tissue Engineering	Morteza Bazgir
A4	The Wear Performance of an All-Polymer Knee Replacement	Raelene Cowie
A5	On-Demand Activation of an Antimicrobial Biomaterial for Oral Soft Tissue Regeneration	Amy Smith
A6	Bioprinting skin equivalents for toxicity testing	Mahid Ahmed
A7	Methodologies to enhance the performance of cell printing technologies	Joseph Dudman
A8	Stereolithography for biological microfluidic applications.	Babis Tzivelekis
A9	Development of the porcine knee model for pre-clinical tribological assessment of early stage knee therapies	Aiqin Liu
A10	Novel ‘smart’ coating in Spacer implants	Laura Richards
B1	Representing the effect of soft tissue constraints in experimental simulation of total knee replacements	Helena Johnston
B2	Polyamide-Ceramic Composites for Maxillofacial Reconstruction	Maha Omran
B3	Bespoke Hip Prostheses: a Review of Design Approaches	Pedro de Oliveira Lopes
B4	Collagen Containing Hybrid Polymers for Musculoskeletal Tissue Engineering Applications	Keegan McColgan-Bannon

B5	Manufacture of modified nanoscale hydroxyapatite for medical applications	Caroline Wilcock
B6	Understanding movement and its influence on the tribology of human joints	Robin Layton
B7	A Comprehensive Combined Experimental and Computational Framework for Pre-clinical Simulation of TKR	Abdellatif Abdelgaied
B8	Shaping biomaterials into porous foams. Emulsion templating combined with additive and subtractive manufacturing	Colin Sherborne
B9	Mechanical behaviour of osteochondral grafts – combined *in vitro/in silico* evaluation	Lekha Koria
B10	Bioinspired scaffold for bone tissue	Beatriz Monterio
C1	How bioinspired nanostructures on Titanium inhibit biofilm formation	Jinju (Vicky) Chen
C2	Manufacturing Mechanically Tailored Electrospun Scaffolds for Corneal Regeneration	Danilo Villanueva
C3	Development of a new Biomimetic Osteochondral plug for Joint Repair	Katherine Pitrolino
C4	Reactive Jet Impingement for Hydrogel Bioprinting	Ricadro Riberio
C5	In vitro wear at the bearing surfaces and taper-trunnion junction of BIOLOX®*delta* ceramic-on-ceramic hips	Rohan Bhalekar
C6	Simplified fabrication of cranial epidural electrodes for chronic neurological recording and stimulations	Christopher Russell
C7	The manufacture of electrospun scaffolds with different levels of alignment for regenerative medicine	Selina Beal
C8	Carbon-based electrospinning templates as a new alternative for the manufacture of biofunctional bone regeneration membranes	Thomas Paterson
C9	Micro Porous Hydroxyapatite/α-Tri Calcium Phosphate Thin Films	Bryan Stuart
C10	Functionalised Medical Grade Calcium Phosphate Granules	Joss Atkinson
D1	Full digital 3D reconstructed and manufactured of Maxillofacial implants	Jensen Aw
D2	Response analysis of the lumbar spine during regular training athlete-A Finite Element Analysis	Edward Attenborough

12:30 ***Lunch and poster viewing***

Session B: The Impact of MeDe Innovation Research

14.00 THEME 1A – Stratified design and manufacture of joint replacements — Dr Mazen Al-Hajjar and Dr Abdellatif Abdelgaied

14.15 THEME 1B – Stratified bioprocesses for the manufacture of acellular scaffolds — Dr Hazel Fermor

MeDe Innovation
EPSRC Centre for Innovative Manufacturing in Medical Devices

14.30	THEME 1C – Stratified design and manufacture of nonwoven collagen scaffolds	Professor Steven Percival
14.45	THEME 1D – Manufacture of fully bioresorbable multiphase fixation devices to order	Professor David Grant
15.00	THEME 2A – Minimally invasive implantation of bioactive materials	Prof Phil Coates and Prof Paul Hatton
15.20	THEME 2B – Processes for in-clinic manufacture	Professor Kenny Dalgarno
15.30	**Close of meeting**