HOW HIGH PERFORMANCE TECHNOLOGY CAN BENEFIT MEDTECH

Thursday 7 March 2013
Nvision, Newton Building, University of Northampton, St Georges Avenue, Northampton, NN2 6JD

MEDILINK

IN PARTNERSHIP WITH:
Northamptonshire Enterprise Partnership

08h45	REGISTRATION AND REFRESHMENTS	
09h15	WELCOME AND INTRODUCTIONS	**Costa Philippou,** Medilink East Midlands **& Julia Schumacher,** Northamptonshire Enterprise Partnership
09h25	**Case Study 1** - How precision technologies can offer the speed and flexibility to produce working parts for biocompatibility, verification testing and clinical trials	**Paul Waldron,** EDM Precision Technologies
09h45	**Case Study 2** - How computational fluid dynamics can add clarity and accuracy to medical issues such as air flow inside an expanding lung, fluid flow process during swallowing and the specifics of complex blood flows	**Rob Lewis,** TotalSim
10h05	**Case Study 3** - How sophisticated cameras which use advanced light source to produce atomic-level images of structures such as viruses and proteins, are vital to research	**Karen Holland,** XCAM
10h25	BREAK	
10h55	**Case Study 4** - How components in the human body experience high levels of load and experience potentially high wear situations, in order to withstand this environment biomedical components require coatings with exceptional hardness, low friction and bio-inertness	**Chris Walker,** Diamond Hard Surfaces
11h15	**Case Study 5** - How advances in optical grating technology, lasers, CCD detectors and miniaturisation have enabled Raman Spectroscopy to be applied ex vivo and in vivo to address biomedical issues such as the early detection of cancers, molecular composition of the skin, identification of biomolecules, bacteria analysis and rapid identification of pathogenic microorganisms	**Chris Kemp,** HORIBA UK
11h35	**Case Study 6** - How inkjet, through precise additive deposition of a wide range of functional fluids, can revolutionise manufacturing processes and increase productivity of medical diagnostic devices	**Kieron Salter,** KW Special Projects
11h55	Panel discussion with all 6 companies	
12h15	LUNCH AND DEMONSTRATION of the five-sided high definition fully immersive ActiveCube (CAVE), part of a three dimensional (3D) immersive visualisation and computational modelling facility at Northampton University	
13h00	CLOSE	