ULTRA PRECISION ENGINEERING CONFERENCE

Institute for Manufacturing, 17 Charles Babbage Road, Cambridge CB3 oFS

MONDAY 9 MAY 2016

PROGRAMME

08:45	Registration & sign-up for lab tours during lunch
09:25	Welcome from the MRes conference team
09:30	Introduction to the Centre for Innovative Manufacturing in Ultra Precision
	Martin O'Hara, National Strategy Manager, Cranfield University
09:50	Challenges in Ultra Precision Manufacture
	Professor Paul Shore, Head of Engineering Divisions, National Physical Laboratory
10:20	Precision for Nuclear Fusion: Challenges, Solutions & Opportunities
	Michael Porton, Head of Engineering Realisation, Culham Centre for Fusion Energy
10:50	Morning Break
11:10	Challenges and Opportunities for Ultra Precision in a Space and Aerospace Contex
	Martin Agnew, CIS R&T and Innovations Coordinator, Airbus Defence and Space
11:40	Precision Manufacturing of Nano-photonic Holograms
	Professor Tim Wilkinson, Professor of Photonic Engineering, University of Cambridge
12:10	Lunch and Tours
13:10	High Density Electrical Interconnect and Microfluidic Packaging of MEMs Devices
	Gary Truett, Prototype Manager, Xaar Plc.
13:40	Microtargetry Challenges for Enabling Future Beam Sources
	Martin Tolley, Target Fabrication Group Leader, STFC Rutherford Appleton Laborator
14:10	Helium Ion Microscopy: High Resolution Imaging and sub-10 nm Nanostructuring
	Peter Gnauck, Business Development Manager, Carl Zeiss
14:40	Afternoon Break
15:00	Femtosecond Lasers for Precision Frequency and Distance Metrology
	Professor Derryck Reid, Head of Photonics and Quantum Sciences Research Institute, Heriot Watt University
15:30	Recent Advances in UV LED Semiconductors Heralds a New Era in Precision Polymerisation
	Jason Smith, CTO, Integration Technology Ltd.
16:00	Ultrafast to Ultra Precision
	Joris van Nunen, Product Marketing Manager, Coherent Inc.
16:30	Closing Remarks
	Professor Bill O'Neill, Course Director: Centre for Doctoral Training in Ultra Precision
16:35	Drinks and Canapés











