

Three-dimensional metrology for micro-scale parts	
Wednesday 28 th October	
11:00 - 11:10	Introduction to NPL – Prof. Richard Leach
11:10 - 11:30	Introduction to Microparts – Dr. Rob Bergmans
11:30 - 12:00	Dr. Jack Stone, NIST, USA – Fiber probe measurements in 2 and 3 dimensions
12:00 - 12:30	Dr. Alain Küng, Federal Office of Metrology METAS, Switzerland – Development and application of the METAS micro-CMM
12:30 - 13:00	Dr. Ulrich Neuschaefer-Rube, PTB, Germany – Dimensional measurements with micro-CT - Test procedures and applications
13:00 - 14:00	Lunch
14:00 - 14:30	Prof. Richard Leach, NPL, United Kingdom – Development of a 3D vibrating micro-CMM probe using an active triskelion flexure
14:30 - 15:00	Dr. Rob Bergmans, VSL, The Netherlands – Traceability of the F25 micro-CMM
15:00 - 15:30	Coffee
15:30 - close	Laboratory tours of NPL
Thursday 29 th October	
09:00 - 09:30	Ernst Treffers, Director Business Development, Xpress Precision Engineering, The Netherlands – Gannen series: 3D tactile probes for microparts
09:30 - 10:00	Dr. Walter Schott, Managing Director, SIOS Messtechnik – Precise measurements with nanomeasuring machine NMM 1
10:00 - 10:30	Dr. Ralf Christoph, President, Werth Messtechnik – Measuring microfeatures with dense pointclouds: Scanning with tomography, microprobes and laser
10:30 - 11:00	Coffee
11:00 - 11:30	Carl Zeiss – TBC
11:00 - 11:30	Dr. Marcin Bauza, InsituTec, USA – Single platform gauge head applied to microscale 3D surface profilometry and roundness
11:30 - 12:00	Dr. Henny Spaan, Director, IBS PE, The Netherlands – Isara 400: Large volume ultra-precision CMM
12:00 - 13:00	Lunch
13:00 - 13:30	Dr. Pawel Drabarek, Robert Bosch, Germany – Interferometrical stylus system with a miniature non contact fiber probe
13:30 - 14:00	Dr. Joel Segal, CECA Nottingham, United Kingdom – Integration aspects of micro metrology in micro manufacturing applications

To register please follow the website link: www.npl.co.uk/events/microparts-interest-group-workshop

For more information please contact:

Event admin - Stuart Humphreys (stuart.humphreys@npl.co.uk) **Technical content** - James Claverley (james.claverley@npl.co.uk)

and Richard Leach (richard.leach@npl.co.uk)