

## Ultra Precision Manufacturing Conference 2015

Tuesday 12 May 2015

Institute for Manufacturing, Cambridge, Lecture Theatres

### Agenda

- 08:45 – 09:15 [Arrival and Registration](#)
- 09:15 – 09:30 [Welcome and Introduction](#)  
Conference Team
- 09:30 – 09:50 [Introduction to the TRL \(Technology Readiness Level\)](#)  
Martin O'Hara, National Strategy Manager  
EPSRC Centre for Innovative Manufacturing in Ultra Precision
- 09:50 – 10:10 [How to Approach the Next Generation of Optical Instruments](#)  
Prof. Richard Leach, University of Nottingham
- 10:10 – 10:30 [The Latest Advances in High Precision Laser Micromachining](#)  
Alan Ferguson, Oxford Lasers
- 10:30 – 11:00 [BREAK](#)
- 11:00 – 12:20 [Ultra Precision PhD Presentations](#)  
Centre for Innovative Manufacturing and Centre for Doctoral Training in Ultra Precision PhD Students
- 12:20 – 13:20 [Networking Lunch](#)
- 13:20 – 13:40 [Nano Ploughing – A Scale Up Nanofabrication Method](#)  
Dr. Sun Jining, Heriot-Watt University
- 13:40 – 14:00 [Nanoanalysis in the SEM: From Nanolayer Down to Single Atoms](#)  
Christian Lang, Oxford Instruments
- 14:00 – 14:20 [Nano-Metrology: X-rays, Optical Interferometry, AFM Metrology and Nano Positioning](#)  
Andrew Yacoot, National Physical Laboratory (NPL)
- 14:20 – 14:40 [AFM Probed-Based Machining](#)  
Dr. Emmanuel Brousseau, Cardiff University
- 14:40 – 15:10 [BREAK](#)
- 15:10 – 15:30 [Challenges in Geometrical Metrology for Additive Manufacturing](#)  
Prof. Xiangqian (Jane) Jiang, University of Huddersfield
- 15:30 – 15:50 [Engineering of Surface using Laser-Initiated Liquid-Assisted Colloidal Lithography](#)  
Dr. Magdalena Ulmeanu, University of Bristol
- 15:50 – 16:10 [Ultra Precision Machining for Integrated Photonic Devices](#)  
Dr. Lewis G. Carpenter, University of Southampton
- 16:10 – 16:30 [PiMag 6D Levitation in Six Degrees of Freedom](#)  
Kevin Grimley, PI UK Ltd
- 16:30 – 16:50 [The Marriage of Robots and Zeeko Machines - Steps Towards a Versatile, Automated, Manufacturing cell](#)  
Richard Freeman, Zeeko Ltd
- 16:50 – 17:00 [Closing Remarks](#)  
Conference Team

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