

Hybrid Micro-manufacturing

(EPSRC project “Miniature flexible & reconfigurable manufacturing systems for 3D micro-products (Micro-3D)” presentation)

JW 7.06b, James Weir Building, University of Strathclyde

Agenda

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| 12:00 – 13:00 | Registration and Lunch |
| 13:00 – 13:10 | Welcome and Introduction
Prof. Xichun Luo
Centre for Precision Manufacturing, DMEM, University of Strathclyde |
| 13:10 – 13:30 | Hybrid micro-manufacturing – an introduction to the Micro-3D project
Prof. Xichun Luo
Centre for Precision Manufacturing, DMEM, University of Strathclyde |
| 13:30 – 13:50 | Manufacturing challenges for micro imaging modules
Mr. Colin Campbell, Senior Engineer
STMicroelectronics (R&D) Ltd, UK |
| 13:50 – 14:10 | Development of hybrid micromachining processes
Dr. Wenlong Chang, Research Associate
Centre for Precision Manufacturing, DMEM, University of Strathclyde |
| 14:10 – 14:30 | Diamond tooling technologies for ultra precision machining
Mr. Andrew Cox, General Manager
Contour Fine Tooling Ltd, UK |
| 14:30 – 14:50 | Numerical modelling of hybrid micromachining processes
Dr. Quanren Zeng, Research Associate
Centre for Precision Manufacturing, DMEM, University of Strathclyde |
| 14:50 – 15:30 | Coffee break and tour of hybrid micro-machine |

- 15:30 – 15:50 Molecular dynamics simulations of hot nanometric cutting of Si & SiC
Mr. Saeed Chavoshi, PhD Researcher
Centre for Precision Manufacturing, DMEM, University of Strathclyde
- 15:50 – 16:10 Dispersed reference interferometry for on-machine metrology
Mr. James Williams, PhD Researcher
EPSRC CIM in Advanced Metrology, University of Huddersfield
- 16:10 – 16:30 Design and fabrication of an affordable hybrid manipulator for
miniaturised product assembly
Mr. Xavier Harper, PhD Researcher
Robotics Group, Heriot-Watt University
- 16:30 – 16:50 Multi-mode method for precision gripping
Dr. Guochao Bai, Research Assistant
Robotics Group, Heriot-Watt University
- 16: 50 – 17:10 Tool path smoothing for micromachining
Mr. Wenbin Zhong, PhD Researcher
Centre for Precision Manufacturing, DMEM, University of Strathclyde
- 17:10 Closing remarks
Prof. Xichun Luo
Centre for Precision Manufacturing, DMEM, University of Strathclyde

Refreshments will be served after the workshop

Location of the James Weir Building, <http://www.strath.ac.uk/maps/jamesweirbuilding/>
Address: 75 Montrose Street, University of Strathclyde, G1 1XJ.

