EPSRC Centre for Doctoral Training in Ultra Precision Engineering Conference

Wednesday 22 June 2022

Institute for Manufacturing, Cambridge

Agenda

10:00 – 10:15  Arrival and Registration
10:15 – 10:30  Welcome and Introduction
               Prof Bill O’Neill
10:30 – 10:40  Microwave Plasma treatment for the adhesion of aerospace composites
               Lydia Frumosu, Cranfield University
10:40 – 10:50  Enhancing the Comfort and Effectiveness of Orthoses through Biomimetic 3D Printing
               Zehao Ji, University of Cambridge
10:50 – 11:00  Fluorine based plasma etching of Ti64 at atmospheric pressure
               Alex Bishop, Cranfield University
11:00 – 11:10  Experimental Investigation of Filament Behaviour in Material Extrusion Additive Manufacturing
               Mark Golab, University of Cambridge
11.10 – 11.25  BREAK
11.25 – 11:35  TITLE TBC
               Sara Hawi, Cranfield University
11:35 – 11:45  A Quantum Dot-Based Parametric Amplifier for Spin Qubit Readout
               Laurence Cochrane, University of Cambridge
11:45 – 11:55  Improving laser powder bed fusion
               Henry de Fossard, University of Cambridge
11:55 – 12:15  Q&A
12:15 – 13:15  Networking lunch
13:15 – 14:15  Why does the future require ultra-precision engineering?
               Paul Shore FREng, Loxham Precision Ltd
14:15 – 14:45  ALUMNI - Transitioning as a researcher across Academia, Government and Industry
               Dr Yoanna Shams
14:45 – 15:00  BREAK
15:00 – 15:30  ALUMNI - Plasma Technology: Innovative Solutions for Medicine, Aerospace, Energy Generation, and
               Much More
               Dr Adam Bennett
15:30 – 16:00  ALUMNI - The manufactured age, or a young man’s illustrated primer
               Dr Peter Christopher & Dr Nadeem Gabbani
16:00 – 16:10  Closing remarks
               Prof Bill O’Neill
16:10 – 17:00  Drinks and canapés