

## 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 [Flourine 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 [Nature-inspired antibacterial surfaces](#)  
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**

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