

Advanced Surface Technologies

Location: Nancy Rothwell 2A.014

	Arrival and Registration
10:00 – 10:10	Welcome from CSO
10:10 – 10:20	Welcome from EPSRC
10:20 – 11:00	Keynote
11:00 – 11:20	Coffee break
Chair	Professor Allan Matthews - University of Manchester
11:20 – 11:50	Dr Beatriz Mingo – University of Manchester Title: Engineering Multifunctional Coatings for Light Alloys
11:50 – 12:10	Prof Peter Kelly – MMU Title: Fabrication, characterisation and wear testing of magnetron sputtered Cr coated Zr alloy cladding for enhanced accident tolerance in light water reactors.
12:10 – 12:30	Dr Dibakor Boruah – TWI Title: Cold Spray Additive Manufacturing of Oxide Dispersion Strengthened (ODS) Alloys
12:30 - 12:50	Dr Liuquan Yang – University of Leeds Title: Deposition and characterisation of silver nanocomposite coatings on orthopaedic grade cobalt chromium alloys and the related antimicrobial effects
12:50 –14:10	Lunch
Chair	Professor John Nicholls - University of Cranfield

14:10 – 14:40	<p>Prof Andre McDonald - University of Alberta</p> <p>Title: Multifunctional Damage Resistance and Heating Performance of Thermal-sprayed Strengthened High Entropy Alloy Coatings for Extreme Environments</p>
14:40 – 15:00	<p>Gyn Brewster – Rolls Royce</p> <p>Title: High Temperature Degradation of Gas Turbine Materials</p>
15:00 – 15:20	<p>Dr Mingwen Bai – University of Leeds</p> <p>Title: In-Situ SEM-Based Mechanical Testing of Thermal Barrier Coatings</p>
15:20 – 15:40	<p>Emily Curtis – UKAEA</p> <p>Title: Permeation barriers for use in breeder blankets in future fusion power plants</p>
15:40 – 16:00	<p>Dr Felicity Worsnop – Imperial College London</p> <p>Title: Chasing hydrogen: In situ and ex situ approaches in engineering alloys</p>
16.00	CLOSE



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