

Part II Project Talks 2016

Tuesday 3 May and Wednesday 4 May 2016 (Week 2, Trinity Term)  
Hume-Rothery Lecture Theatre

Time	Student	College	Supervisor	Title of Talk
<b>Tues 3 May</b>				
<b>10.00</b>	<b>Coffee and pastries HR Meeting Room</b>			
<b>10.30</b>	<b>Introduction: Prof Keyna O'Reilly</b>			
10.45	Jack Shuttleworth	MAN	AJW/DC	Biaxial deformation
11.00	Jonathan Mainwaring	CCC	AJW/DEJA/SPF	High entropy alloys for extreme environments
11.15	Guy Calloway	SEH	SGR/DEJA/Gorley	Mechanical properties of Cr-based alloys for fusion power
11.30	Adrian Matthew	CCC	SGR/Tarleton	Modelling micro-mechanics experiments
11.45	James Plummer	STC	MLG/FA	Development of light-weight aluminium nanocomposites
12.00	Chloe Farrar	CCC	TJM	Measurement of internal strains in ceramic matrix composites for advanced nuclear fission and fusion
<b>12.15</b>	<b>Lunch at St Edmund Hall</b>			
14.15	Matthew Cyrson	TRI	PRW/Bonilla	Efficient passivation of silicon surfaces using silica/titania double layered dielectrics
14.30	Nicolas Jennison	TRI	PRW/Bonilla	Improving extrinsic surface passivation for p-type silicon solar cells
14.45	Barnaby Parker	CCC	RIT/PRW/Bonilla	Flash sintering of zirconia
15.00	Edward Parry	QNS	RIT	Ceramic armour
15.15	Kate Danks	MAN	PGB	Polymer electrolytes and silicon nanomaterials for lithium ion batteries
<b>15.30</b>	<b>Coffee Break</b>			
15.45	Sam Eardley	STC	KP/NG	Synthesis and chemical functionalisation of doped carbon nanotubes
16.00	Michelle Van	QNS	KP/Dallas	Mixed metallofullerene molecular magnet
16.15	Bruno Marco Dufort	STA	Langer/Traverso/ von Erlach MIT (NG)	Analysis of polymer nanoparticle-intestinal tissue interactions for the development of novel oral drug formulations
16.30	Liviana Sordo-de Cock	STA	Traverso/DiCiccio, MIT (NG)	A systematic analysis of polymer based nanoparticles for the oral delivery of biopharmaceuticals
16.45	Sunny Jain	QNS	NG	CNT epoxy composites for thermal management in industrial applications

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<b>Wednesday 4 May</b>				
09.30	India Kirkpatrick	MAN	JTC	Using the rapid biaxial expansion
09.45	Joseph Mankelov	MAN	SLP	Exploring alternative EDX quantification methods for TEM
10.00	Sarah Hopkin	TRI	MMPMM/PAJB	Characterisation of bearing steels using atom probe tomography
10.15	Hazel Gardner	TRI	PAJB/MPM/RCR	Atomic scale investigation of the thermal response behaviour of nickel superalloy Inconel 625
<b>10.30 Coffee Break</b>				
10.45	Brian Chen	STC	Langer/Traverso/ Grant, MIT (HEA)	Development of novel biomaterials for ultrasound-mediated GI-based drug delivery
11.00	Freddie Faulkner	STA	Yildiz, MIT (JRY)	Ab initio study of B site doping (Al, Zr, Hf, Ti, Nb and V) in the bulk and surface of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$
11.15	Jeremy Miles	SEH	HB	Advanced flexible displays
11.30	William Darby	SEH	SCS/CRMG	Superconducting solders for persistent mode joints
<b>11.45 Judging (Hume-Rothery Meeting Room)</b>				
<b>12.15 Lunch (Hume-Rothery Meeting Room)</b>				