

Part II Project Talks 2015

**Tuesday 5 May and Wednesday 6 May 2015 (Week 2, Trinity Term)
Hume-Rothery Lecture Theatre**

Time	Student	College	Supervisor	Title of Talk
Tues 5 May				
10.00	Coffee and pastries HR Meeting Room (for judging committee)			
10.30	Introduction: Prof. Keyna O'Reilly			
10.45	John Waite	SEH	DEJA/SPF/AJW	High entropy alloys for extreme environments
11.00	Alannah Hawkesford	SEH	DEJA/AJW	Grain boundary strength and failure in BCC metals
11.15	Katherine Lumley	MAN	AJW/TBB	Template matching – delivering a step change in EBSD analysis
11.30	Bruce Bromage	CCC	MRC	Predicting nanocrystal shapes
11.45	Sheen Gurrib	CCC	JTC	Spatially controlled self-expanding tissue expanders
12.00	Miriam Steinmann	QNS	JTC	Scaffolds for neurons
12.15 Lunch (St Edmund Hall)				
14.15	Alexander Leide	STA	Profs L Hobbs & J Li MIT (SPF/CRMG)	The role of chemical disorder in radiation-induced solid state amorphization of silicon carbide
14.30	Charles Hirst	TRI	MPM (PDE)	Atom probe tomography of zirconium alloys for nuclear fission applications
14.45	Benjamin Jenkins	SEH	PAJB/MPM/RCR	An Atomic Scale Characterisation of 2nd Generation Nickel Based Superalloys for Turbine Disc Applications
15.00	Cam Brookhouse	SEH	HEA	Organic Thin Film Transistors for Low-Cost Sensor Applications
15.15	Frederica Onslow	STC	HB	Investigating the deposition and characterisation of VO ₂ for optoelectronics and artificial muscles
15.30 Coffee (Hume-Rothery Foyer)				
16.00	Lok Yi Lee	CCC	FD/NG	Fast and facile synthesis of Metal Sulfide Nanoparticles
16.15	Theodore Silkstone Carter	SEH	NG/RIT	Carbon nanotube reinforced, biomimetic alumina composites
16.30	Richard Lobo	TRI	PRW	The effect of aluminium on the passivation of silicon surfaces using dielectrics
16.45	Lucy Rands	TRI	PRW	Passivisation of silicon surfaces through the introduction of charge into insulating layers
17.00	Emily Walport	TRI	NPY	Rare earth doped nanocrystalline titania for radiotherapy sessions

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Wednesday 6 May				
09:15	Robert Hamlet	STC	TJM	Fracture-mechanics analysis of high speed crack propagation
09:30	Elinor Pennicott	TRI	Profs E Olivetti, H Tuller & L Hobbs MIT (TJM)	Flash versus conventional sintering of ceramics
09:45	Josef Hazi	STA	Prof C Schuh, MIT (CRMG)	Novel technique for accelerated sintering of phase-separating nanostructured systems
10:00	Gregory Flavell	STA	MLG/FA	Manufacturing and characterization of new light weight alloys
10:15	Yida Zhao	MAN	Dr G Traverso, MIT (MLG)	Shape memory polymer stimulated by magnetic induction
10.30	Coffee (Hume-Rothery Foyer)			
11:00	Hugh Handy	QNS	RIT	"Crumbly alumina" for armour applications
11:15	Thomas Mills	CCC	RIT	"Crumbly alumina" for armour applications
11.30	Rebecca Bibb	QNS	KS/KAQOR	Solidification of spherical liquid droplets in dilute Al Alloys
11.45	Ina Sorensen	MAN	PDN/LBJ	Detecting strain in scanning transmission electron microscope images
12:00	Judging (Hume-Rothery Meeting Room)			
12.30	Lunch for judges (Hume-Rothery Meeting Room)			