

## Part II Presentations

**Tuesday 30th April and Wednesday 1st May 2013 (Week 2, Trinity Term)  
Hume-Rothery Lecture Theatre**

<b>Tuesday 30 April</b>				
9.30	<b>Introduction: Dr Keyna O'Reilly</b>			
9.45	Yueyue Zhao	TRI	JaMS	Single quantum dot in a microcavity
10.00	Alison Wilson	CCC	JPN/Northover	Precipitation microstructures in ancient and modern silver-cooper alloys
10.15	David Barrett	STA	KP	Synthesis of endohedral metallofullerenes for quantum information processing
10.30	Camden Ford	STC	AARW/JDM	Colloidal synthesis of quantum dot thermophotovoltaics
10.45	Adam Wallymahmed	QNS	RIT	Fatigue of zirconia – A danger for biomedical implants
<b>11.00</b>	<b>Coffee (<i>Hume-Rothery Foyer</i>)</b>			
11.15	Anna Bennett	TRI	KAQO'R	Thermal analysis and its uses in the recycling of wrought aluminium alloys
11.30	Michelle Lim	STC	NG/Koos/Dillon	Novel routes to manufacturing layered inorganic nanomaterials
11.45	Alastair Marsh	CCC	MLG/Audebert	Development of aluminium matrix nanocomposites
12.00	Sam Tham	STC	RIT	Superplastic inhomogeneity – rarity or heresy?
12.15	Mark Holdstock	MAN	KAQO'R	Investigating the effect of casting conditions on the quality of the melt and subsequent components
<b>12.30</b>	<b>Lunch</b>			
2.45	Ridhi Kantelal	STC	TJM/Mostafavi	3D analysis of displacement fields
3.00	Ian Faulkner	STA	PRW	Corona anodisation of materials
3.15	Christian Bridge	STC	MLG/Audebert	Manufacture and characterization of new light weight alloys produced by rapid solidification
3.30	Alice Cantell-Haynes	CCC	PRW/Malik	Semi insulating silicon – stability problem
3.45	Adam Kelvey	TRI	JHW/SS	Producing optimal copper catalyst substrates for graphene growth
<b>4.00</b>	<b>Tea (<i>Hume-Rothery Foyer</i>)</b>			
4.15	Lucy Durrans	SEH	DA/SGR	The ductile-to-brittle transition temperature of polycrystalline Molybdenum
4.30	Alex Ford	MAN	JHW	Preparing grapheme for integrated nanocrystal device manufacture

<b>Wednesday 1 May</b>				
9.30	Naomi Omori	TRI	JaMS	Optical microcavities for enhanced chemical sensing
9.45	Emily Healy	SEH	AJW/TBB	Deformation at and near grain boundaries in HCP metals
10.00	Christopher Newell	STC	KP	Synthesis of molecular building blocks using C <sub>60</sub> fullerene
10.15	Michael Pearson	SEH	RIT	Functionally graded ceramics for the ultimate bend strength
10.30	Anna Ploszajski	MAN	JRY	Polymer hydride nanocomposites for hydrogen storage
10.45	Luke Hanna	TRI	Williams/PAJB/SGR	Atomic scale studies of W-5Ta for fusion applications
<b>11.00</b>	<b>Coffee (<i>Hume-Rothery Foyer</i>)</b>			
11.15	Vivian Tong	CCC	TJM/Mostafavi	3 dimensional studies of elastic strain fields under a Hertzian indenter
11.30	Sam Agarwal	QNS	KAQO'R	Al-Nb master alloy production
11.45	Serena Bochereau	STA	NG/Koos/Dillon	Synthesis of endohedral metallofullerenes for quantum information processing
12.00	Rachel McGuire	STA	JDM	Defect interactions in silicon photovoltaics
12.15	Sinead Mottishaw	SEH	JDM/JJLM	Studying defects in silicon photovoltaics by electrically detected magnetic resonance experiments
<b>12.30</b>	<b>Lunch and Judging (<i>Hume-Rothery Meeting Room</i>)</b>			