I11 Long Duration Experiments (LDE) Workshop

Diamond Light Source

Date: Friday 08 Nov 2013

Venue: G53 & G54**,** Diamond House, Diamond Light Source

Organising Committee:

I11 LDE User Working Group: Donna Arnold (Kent), Jeremy Cockcroft (UCL), Hilary Kennedy (Bangor), Peter Hutchins (Infineum, UK), Colin Pulham (Edinburgh) and Howard Stone (Cambridge)
Beamline I11 team: Paul Adamson, Claire Murray, Stephen Thompson and Chiu Tang (Diamond)

Provisonal Programme

09:00 – 09:30	**Registration**	
09:30 – 09:40	**Welcome and opening remarks**	Trevor Rayment
	1st session: I11 LDE facility	Chair: Jeremy Cockcroft
09:40 – 10:00	Beamline I11 LDE facility Chiu Tang (Diamond)	
	2nd Session: LDE science and possibilities	Chair: Jeremy Cockcroft
10:00 – 10:20	Understanding long term degradation in electrochemical devices Paul Shearing, UCL	
10:20 – 10:40	Development of Nanomaterials for High Performance Catalysis Edman Tsang, Oxford	
	Tea Break	
	3rd Session: LDE science and possibilities	Chair: Donna Arnold
11.00 – 11:20	Potential LDE studies on gas separation and storage in porous materials Sihai Yang, Nottingham	
11:20– 11:40	Studying solid-state phase transformation and corrosion in metal alloy systems as a function of time and environmental conditions Anna Marie Adamska, Bristol	
11:40 – 12:00	Radiation damage in materials – title TBA Neil Hyatt, Sheffield	
12:00 – 13:20	***Lunch + Tour of beamline I11***	
	4th Session: LDE science and possibilities	Chair: Howard Stone
13:20 – 13.40	Safety critical engineering and the metallurgical clock David Rugg, Rolls-Royce	
13:40 – 14:00	Sensitive Issues with 'Pharmaceuticals' Robert Lancaster, UCL	
14:00 – 14:20	Seasonal and longer term mineralogical changes in a marine setting Hilary Kennedy, Bangor	
14:20 – 14:30	Beamtime Application Systems Sue Judge (UO, Diamond)	
	5th Session: Breakout	
14:30 – 15:30	Science Groups: 1. Energy	Meeting Room G53

	2. Gas storage 3. Catalysis 4. Environmental 5. Metallurgy, Material 6. Pharmaceuticals 7. Corrosion & Radiation exposure	G54 G54 G14 G16 Atrium Atrium
Tea & Coffee		
6th Session: Discussion and Summary		Chair: Colin Pulham
15:45 – 17:00	**Spokespersons report back: possibilities and requirements** **Discussion and Conclusion**	
Close & Refreshment		