

Royce@Cambridge
Technology Platform Launch
21st-22nd June 2023

Wednesday 21st of June 2023

Session 1 (GS1): 10:00-11:00		Chair: Dr Adrian Ionescu			
10:00–10:30	Welcome to Centre for Materials Physics (CMP), Royce Intro, Outline of schedule				
	Prof Manish Chhowalla, Prof Jason Robinson, Zeiss Rep				
10:30-11:00	Physical Vapour Deposition Techniques				
	Dr Nadia Stelmashenko				
11:00–11:30	Tea & Coffee Break				
Session 2 (GS1): 11:30-13:00		Chair: Dr Nadia Stelmashenko			
11:30-12:00	SEM-FIB: Capabilities, 3D analysis and applications				
	Dr John Walmsley				
12:00-12:30	X-Ray Characterisation of Thin Films				
	Dr Giulio Lampronti				
12:30-13:00	Magnetometry: Basic Dc SQUID Theory and VSM				
	Dr Adrian Ionescu				
13:00–14:00	Lunch				
14:00-15:00	Lab Tours MSM, Sponsor Stands/Posters				
Session 3 (GS1): 15:00-15:30		Chair: Dr John Walmsley			
15:00-15:30	Correlative Case study on Nuclear Graphite				
	Dr Andrew Elliott				
15:30-16:00	Tea & Coffee Break				
Workshops and Posters: Workshop 1 - 16:00-16:45 / Workshop 2 -16:45-17:30					
AJA Sputter	E-beam	X-ray Charac.	Zeiss X-beam	9T Cryo-free	AFM
Ms Sijie Wang	Mr Hisa Matsuki	Dr Guilio Lampronti	Zeiss rep Dr John Walmsley	Ms Jiahui Xu	Dr. Nadia Stelmashenko?
Small Group Introduction to deposition (Mounting, Loading, Alignment, Pitfalls)	Small Group Introduction to deposition (Mounting, Loading, Alignment, Pitfalls)	Small Group Introduction to XRD, XRR, RSM (Mounting, Loading, Alignment, Pitfalls)	Small Group Introduction to SEM/FIB (Mounting, Loading, Alignment, Pitfalls)	Small Group Introduction to Transport measurement (Mounting, Loading, Alignment, Pitfalls)	Small Group Introduction to AFM/MFM
Dinner West Hub Restaurant: 18:00-20:00					

Thursday 22nd of June 2023

Session 4 (GS1): 10:00-11:00		Chair: Dr Guilio Lampronti		
10:00–10:30	Measurement Considerations Including Sample Mounting			
	Mr Cheng Liu			
10:30-11:00	Electrical Transport Measurements			
	Dr Adrian Ionescu			
11:00–11:30	Tea & Coffee Break			
Session 5 (GS1): 11:30-13:00		Chair: Dr Soumya Sarkar		
11:30-12:00	TBC			
	Prof Manish Chhowalla			
12:00-12:30	Introduction to Photo-lithography			
	Dr Adrian Ionescu			
12:30-13:00	Automated Microscopy in Geoscience			
	Dr Richard Taylor			
13:00–14:00	Lunch			
14:00-15:00	Lab Tours Maxwell, Sponsor Stands/Posters (MSM)			
Session 6 (GS1): 15:00-15:30		Chair: Prof. Jason Robinson		
15:00-15:30	MPMS Measurements using a High Pressure Cell			
	Cheng Liu			
15:30-15:35	Closing Remarks			
	Prof. Jason Robinson			
15:35-16:00	Tea & Coffee Break			
Workshops and Posters: Workshop 1 - 16:00-16:45 / Workshop 2 -16:45-17:30				
Maxwell MPMS	VSM LakeShore	CryoProbestation	X-ray Characterisation	Zeiss X-beam
Mr Cheng Liu	Dr Adrian Ionescu	Dr Soumya Sarkar	Dr Guilio Lampronti	Zeiss rep Dr John Walmsley
Small Group Introduction to MPMS (Mounting, Loading, Alignment, Pitfalls)	Small Group Introduction to VSM (Mounting, Loading, Alignment, Pitfalls)	Small Group Introduction to VSM (Mounting, Loading, Alignment, Pitfalls)	Small Group Introduction to XRD, XRR, RSM (Mounting, Loading, Alignment, Pitfalls)	Small Group Introduction to SEM/FIB (Mounting, Loading, Alignment, Pitfalls)