Programme 23 February

09:00	**Registration and Coffee**		
09:55	Welcome Andy Bushby - Chair		
10:00	Cell Biology meets Synthetic Biology		*Prof Paul Verkade, University of Bristol, UK*
10:30	From 3D to 4D: Correlative Microscopies at Bone Interfaces		*Prof Kathryn Grandfield, McMaster University, Canada*
11:00	Techno Bite Real time atomic scale imaging of catalysts during a catalytic reaction		LOT Quantum Design
11.10	**Coffee and Exhibition**		
11:30	Electron microscopy study of hybrid catalyst immobilized in mesoporous cellular foam		*Dr Cheuk-Wai Tai, Stockholm University, Sweden*
12:00	Electron tomography at the interface between soft and hard matter		*Prof Sara Bals, University of Antwerp, Belgium*
12:30	Cryo Soft X-ray Microscopy: New Opportunities for Structural Biology		*Dr Liz Duke, Diamond Light Source, UK*
13:00	**Lunch, Exhibition and Posters**		
14:00	Low-dose high-resolution scanning transmission electron microscopy: strategies and practical applications		*Prof Quentin Ramasse, SuperSTEM Facility, Daresbury, UK*

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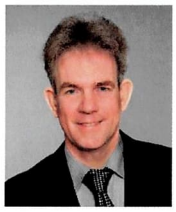
14:30	Prospects for High Resolution Analytical Transmission Electron Microscopy of Beam Sensitive Materials		*Prof Rik Brydson, University of Leeds, UK*
15:00	Techno Bite Ultramicrotomy as a versatile and fast tool to prepare hybrid materials for electron microscopy		Leica MICROSYSTEMS
15:10	Techno Bite Characterisation of a novel TEM cryo transfer holder		ISS GROUP The unique link in microscopy
15:20	**Coffee, Exhibition and Posters**		
15:40	Studying drug responses in rare breast cancer cells using liquid-phase electron microscopy		*Prof Niels de Jonge, Saarland University, Saarbruecken, Germany*
16:10	Imaging Nanoparticles, Cells and Tissues in 3D with Electron Probes		*Prof Richard Leapman, National Institute of Biomedical Imaging and Bioengineering, USA*
16:40	Techno Bite A novel approach to low voltage analytical STEM		HITACHI Inspire the Next
16:50	Techno Bite An introduction to the latest JEOL TEM's		JEOL
17:00	**Posters and Exhibition**		
18:00	**Wine Reception and Buffet**		JEOL

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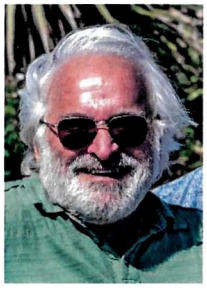
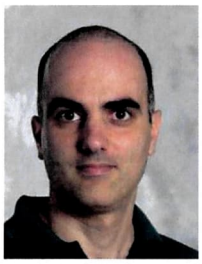
09:00	**Registration and Coffee**		
09:55	Welcome *Dr Roland Fleck and Professor Paul Verkade*		
10:00	Water and hydration: properties of water; free, bound and structural water; effects of hydration on materials bulk and surface properties		*Prof Martin Chaplin, London South Bank University, UK*
10:40	Cryo-immobilization of aqueous samples for EM		*Dr Eyal Shimoni, Weizmann Institute of Science, Israel*
11:20	**Coffee**		
11:40	EM for advanced materials: efficient phase contrast imaging in the scanning transmission electron microscope		*Prof Peter Nellist, University of Oxford*
12:20	CryoSTEM tomography of vitrified cells and soft materials: providing 3D morphology and chemical analysis simultaneously		*Dr Sharon Wolf, Weizmann Institute of Science, Israel,*
13:00	**Lunch**		

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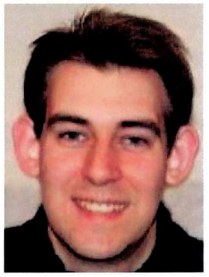
14:00	A novel cryo correlative SEM – EDS - fluorescence technique used to study biomineralization pathways in *foraminifera*		*Ms Gal Mor Khalifa, Weizmann Institute of Science, Israel*
14:40	Charting cellular landscapes in molecular detail: cryo-FIB preparations aimed at *in situ* cryo-electron tomography		*Dr Julia Mahamid, Max Planck Institute of Biochemistry, Germany*
15:20	**Coffee Break**		
15:40	The development of cryo-FIB lift-out for soft matter and Biological imaging - Making the practically impossible 'merely difficult'		*Dr Christopher Parmenter, University of Nottingham, UK*
16:20	Seeing metal atoms on protein structures by cryo-STEM		*Prof Michael Elbaum, Weizmann Institute of Science, Israel*
17:00	Concluding remarks *Professor Michael Elbaum*		