Tuesday | March 2022 (CET 14:00; GMT13:00; EST 08:00)

	Session One
14:00	
13:00	Welcome
08:00	Market Brown and Transfer and T
14:05	Visualizing Bottom-up and Top-down Formation of Nanomaterials in Liquids with
13:05 08:05	Transmission Electron Microscopy Utkur Mirsaidov
00:03	National University of Singapore, Singapore
14:45	Bio-Geo-Material Interfaces om Earth Sciences
13:45	Liane G. Benning
08:45	GFZ Potsdam, Germany
15:25	Techno Bite: Jeol, JEM-F200 and SerialEM – a robust STEM
14:25	tomography platform
09:25	
15:30	Techno Bite: Thermo Fisher Scientific, Cryo-Dual Beam sample
14:30	preparation — current state of technology and opportunities for life ThermoFisher SCIENTIFIC
09:30	and material sciences
15:35	
14:35	Break
09:35	DOCTED CECCION
15:40	POSTER SESSION Homorhoology of another sites influenced by blamonic name barticles assessed with the
14:40	Hemorheology of erythrocytes influenced by plasmonic nanoparticles assessed with the combined application of optical tweezers and conventional microscopy modalities
09:40	Igor Meglinski
15:45	Electron ptychographic imaging of polyvinyl alcohol ordering
14:45	Botao Hao
09:45	
15:50	From Cryo to Crystal: Using 3D cryo-TEM to measure nanoparticle interactions during self-
14:50	assembly in emulsion droplets
09:50	Maarten Bransen
15:55	Ex-situ study of the formation of CeO2 mesocrystals
14:55	Diana Piankova
09:55	
16:00	Resolving the Bone-Bacteria Interface in Bisphosphonate-Related Osteonecrosis of the Jaw
15:00	C. Micheletti
10:00	
16:05	Techno Bite: Oxford Instruments NanoAnalysis, Characterising
15:05	biomaterial and tissue interactions using multi-colour electron
10:05	microscopy
16:10	Imaging chemical processes at the atomic-scale
15:10	Stig Helvig
10:10	National Centre for Nano Fabrication and Characterization, DTU, Denmark
16:50	
15:50	End of Session
10:50	

Session Two		
18:30	Towards Microsecond Time-Resolved Cryo-Electron Microscopy	
17:30	Ulrich Lorenz	
12:30	EPFL, Switzerland	
19:10	Dose- and sampling- efficient electron phase contrast imaging	
18:10	Penghan Lu	
13:10	Ulm University, Germany	
19:50		
18:50	Break	
13:50		
20:00	Volume CLEM: Bigger, better, faster, more	
19:00	Lucy Collinson	
14:00	The Francis Crick Institute, London, UK	
20:40	Opening Windows into the Cell: Bringing Structure to Cell Biology using Cryo-Electron	
19:40	Tomography	
14:40	Elisabeth Villa	
	UCSD, USA	
21:20		
20:20	End of Day	
15:20		

Wednesday 2 March 2022

Focus Lecture Series

"Advances in Analytical Cryo-Electron Microscopy: From sample preparation to data acquisition to data analysis"

	Session One		
14:00			
13:00	Welcome		
08:00	Welcome		
14:05	Operando and in situ in a TEM imaging in a cryogenic temperature range		
13:05	Martial Duchamp		
08:05	Nanyang Technological University, Singapore		
14:45	Nanoscale Electrode Interfaces Revealed with Cryo-Electron Microscopy		
13:45	Katherine Jungjohann		
08:45	NREL, USA		
15:25	Techno Bite: ExpressLO, Cryo-EXLO FIB Preparation for Cryo-		
14:25	TEM ZEXpressió iiC		
09:25			
15:30	Techno Bite: Gatan, Low Dose, Low Temperature Imaging of Beam		
14:30	Sensitive Battery Materials		
09:30	AMETEK		
15:35 14:35	Break		
09:35	Dreak		
07.55	POSTER SESSION		
15:40	Cryo-SEM Analysis of a Gel-like State of Nickel Hydroxide Created by Electrochemical Aging		
14:40	Alexi L. Pauls		
09:40			
15:45	Temperature-dependent growth of PbI2 platelets at the surfaces of triple-halide perovskite		
14:45	films		
09:45	Dan Ralf Wargulski		
15:50	Ag nanoparticles prepared using ionomer as a size regulator and their catalytic performance		
14:50	for oxygen reduction reaction		
09:50	Yi Yang		
15:55	Controlling the CeO2 crystallization pathway in nanoscale Liquid-phase TEM — Comparison		
14:55	to GammaCell		
09:55	Dr Hannes Zschiesche		
16:00	lodine vapor staining reveals the unmineralized-mineralized interfaces in bone tissue		
15:00	facilitating osteocyte network tomography with FIB-SEM		
10:00	Mahdi Ayoubi		
	i imital Payoubi		
16:05	Techno Bite: MiTeGen, Innovations in Cryo-EM Sample		
15:05	Preparation MiTeGen		
10:05			
16:10	TBC TILL		
15:10	Prof Robert Thorne		
10:10	Cornell University, USA		
16:50	End of Socion		
15:50	End of Session		
10:50			

Session Two		
18:30	4D-STEM of soft materials	
17:30	Andrew Minor	
12:30	UC Berkeley, USA TBA	
19:10	Assessing LN2 Cooled Cryogenic Stages for Atomic Resolution and 4D-STEM Imaging	
18:10	Miaofang Chi	
13:10	ORNL, USA	
19:50		
18:50	Break	
13:50		
20:00	Cryogenic EELS at the atomic scale	
19:00	Berit Goodge	
14:00	Cornell University, USA	
20:40	Denoising Electron Energy Loss Spectra using Convolutional Autoencoders	
19:40	Mark Oxley	
14:40	ORNL, USA	
21:20		
20:20	End of Day	
15:20		