


Programme

Thursday 11 March 2021

Session One Session Chair: Rik Drummond-Brydson	
09.00	Welcome
09.05	Unravelling the structural and biochemical anomalies in human osteogenesis imperfecta bone by correlating electron microscopy and Raman microspectroscopy Professor Anat Akiva, <i>Radboudumc, NL</i>
09.40	Preparing Lamellae of the Most Fragile Interfaces with a TripleBeam FIB 
09.45	Prospects for the analysis of complex, beam-sensitive materials by transmission electron microscopy and associated techniques Dr Andy Brown, <i>University of Leeds, UK</i>
10.20	Break
10.30	4D imaging of soft matter in liquid water Prof. Guiseppe Battaglia, <i>University College London, UK</i>
Poster Session	
11.05	Gaining meaningful statistical data on TEM specimens through automated nanoparticle workflow (APW) Anil Yalcin
11.10	Electron ptychographic imaging of polymer and macromolecular ordering Botao Hao
11.15	On the local structure of amorphous CN frameworks Diana Piankova
11.20	Imaging and structural analysis of polymer crystallinity with STEM ptychography Hui Luo
11.25	The role of collagen glycosylation in bone mineralization during health and disease Luco Rutten


Programme

11.30	Dose and signal to noise in 4D STEM imaging of beam-sensitive materials Peter Nellist
11.35	Atomically resolved tomographic reconstruction of nanoparticles from single projection: influence of amorphous carbon support Pritam Banerjee
11.40	Atomic-resolution Imaging of Small Organic Molecules on Graphene Priti Kharel
11.45	γ -Radiation Induced Engineering of Ag-Ni (oxy-hydro) oxide Interfaces for Enhanced Oxygen Reduction Reaction Activity Yi Yang
11.50	Theoretical Toolbox for the Characterization of Organic-Inorganic Interfaces Prof. Claudia Draxl, <i>Humboldt-Universität Berlin</i>
12.25	End of Session

Session Two Session Chairs: Nadja Tarakina & Sean Collins	
14.00	Developments in high-speed AFM to reveal μ s-dynamics of unlabeled biomolecules Dr George Heath, <i>University of Leeds, UK</i>
14.35	Three Dimensional Electron Diffraction (3DED) considerations for small and beam sensitive materials and data. Dr Andy Stewart, <i>University of Limerick, Ireland</i>
15.10	Break
15.20	Visualizing the dynamics at gas-solid- and metal-support-interfaces in heterogeneous catalysis Prof Marc Willinger, <i>ETH Zurich, Switzerland</i>
15.55	Bio-Geo-Material Interfaces: from nano to global processes Prof Liane G. Benning, <i>FX Potsdam, Germany</i>
16.30	End of Day

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Session One Session Chairs: Andy Brown	
09.00	Welcome
09.05	Novel imaging techniques enabled by direct electron detection Dr Chris Allen, <i>EPSIC, UK</i>
09.40	The Latest Information on JEOL CryoTEMs 
09.45	Break
09.55	Momentum-resolved STEM: An interdisciplinary methodological platform for materials and soft matter characterization Professor Dr Knut Müller-Caspary, <i>Juelich, Germany</i>
10.30	Title TBC Professor Dr Peng Wang <i>Nanjing University, China</i>
11.05	End of Session

Session Two Session Chairs: Rik Drummond-Brydson & Nadja Tarakina	
14.00	Imaging soft-hard interfaces and small organic molecules on graphene Professor Pinshane Huang, <i>University of Illinois at Urbana-Champaign, US</i>
14.35	Exploring interfaces in metal–organic framework composites by analytical STEM Dr Sean Collins, <i>University of Leeds, UK</i>
15.10	Break
15.20	<i>In situ</i> STEM characterisation of chemical reactions using 2D heterostructure liquid cells Daniel J Kelly, <i>University of Manchester</i>

Programme

15.55	Title TBC Prof Dr Lena F Kourkoutis <i>Cornell University, USA</i>
16.30	What differential phase contrast may tell us about edges, interfaces, soft matter and biological materials Professor Josef Zweck, <i>University of Regensburg</i>
17.05	End of Day



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