

## Programme 22 February

09:00	Registration and Coffee		
09:55	Welcome and Introduction		
10:00	Discovering Organic-Inorganic Interfaces by Secondary Electron Hyperspectral Imaging		Dr Cornelia Rodenburg, University of Sheffield
10:30	Correlative Electron and X-Ray Microscopy of Nanoparticle Transformations		Dr Angela Goode, Imperial College London
11:00	Techno Bite: <i>in-situ</i> cameras for solids, liquids and interfaces		 GATAN
11:10	Break (refreshments in trade exhibition room)		
11:35	Integrated Light and Electron Microscopy: Structural Context for Organic Molecules		Dr Jacob P. Hoogenboom, Delft University of Technology
12:00	Infrared Nanospectroscopy – An Emerging Analytical Tool for Science and Technology		Dr Rainer Hillenbrand (s-SNOM) Ikerbasque
12:30	Fast and dose efficient electron tomography: acquiring tilt series in 5 seconds		Dr. Vadim Migunov, Ernst Ruska-Centre
13:00	Lunch Break (buffet lunch in trade exhibition room with posters)		
14:00	Novel Approaches and Recent Advances in Three-Dimensional Cryo-Electron Microscopy		Prof. Jürgen M. Plitzko, Max Planck Institute of Biochemistry

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14:30	<b>New Insights into The Nanostructure and Composition of Bone and Teeth using Advanced Electron Microscopy</b>		Dr Roland Kroeger, University of York
15:00	Techno Bite: <b>Higher resolution imaging of Vitrified Biological Specimens. The first step in correlative light and electron microscopy</b>		
15:20	<b>Break (Refreshments in exhibition room)</b>		
15:40	<b>Caught in the act: Magnetite Biomineralization Visualized <i>in situ</i></b>		Dr Tanya Prozorov, US Department of Energy
16:10	<b>Imaging Hybrid Inorganic-Organic Interfaces by Inline Electron Halography</b>		Prof. Dr. Christoph Koch, Humboldt University of Berlin
16:40	<b>An Update on JEOL Cryo-TEM Development</b>		
16:50	<b>Techno Bite: iDPC STEM for High Contract Imaging in Low Dose Applications</b>		
17:00	<b>Wine reception and buffet (posters and exhibition)</b>		



## Programme 23 February

09:00	Registration and Coffee		
09:55	Welcome and Introduction		
10:00	<b>The Spatially and Temporally Varying Chemical Environment During Liquid Cell Electron Microscopy</b>		Dr Frances Ross, IBM, USA
10:40	<b>Real Time Imaging of Materials Transformations with Liquid Cell Electron Microscopy</b>		Prof. Haimei Zheng, University of California
11:20	Break (refreshments)		
11:40	<b>Confined and Nearly-Free 3D Mobility of Silica, Titania and Gold Nanoparticles Studied with Liquid Phase Transmission Electron Microscopy</b>		Dr Marijn van Huis, Utrecht University, The Netherlands
12:20	<b>Nanoscale Elemental Mapping in Liquids</b>		Dr Sarah Haigh, University of Manchester
13:00	Lunch Break (buffet lunch)		
14:00	<b>Liquid-Phase Electron Microscopy for Studying Membrane Proteins and Nanoparticles in Intact Cells</b>		Dr Diana Peckys, Saarland University
14:40	<b>Liquid Phase Electron Microscopy of Soft Matter</b>		Dr Joe Patterson, Eindhoven University of Technology
15:20	Break (refreshments)		



15:40

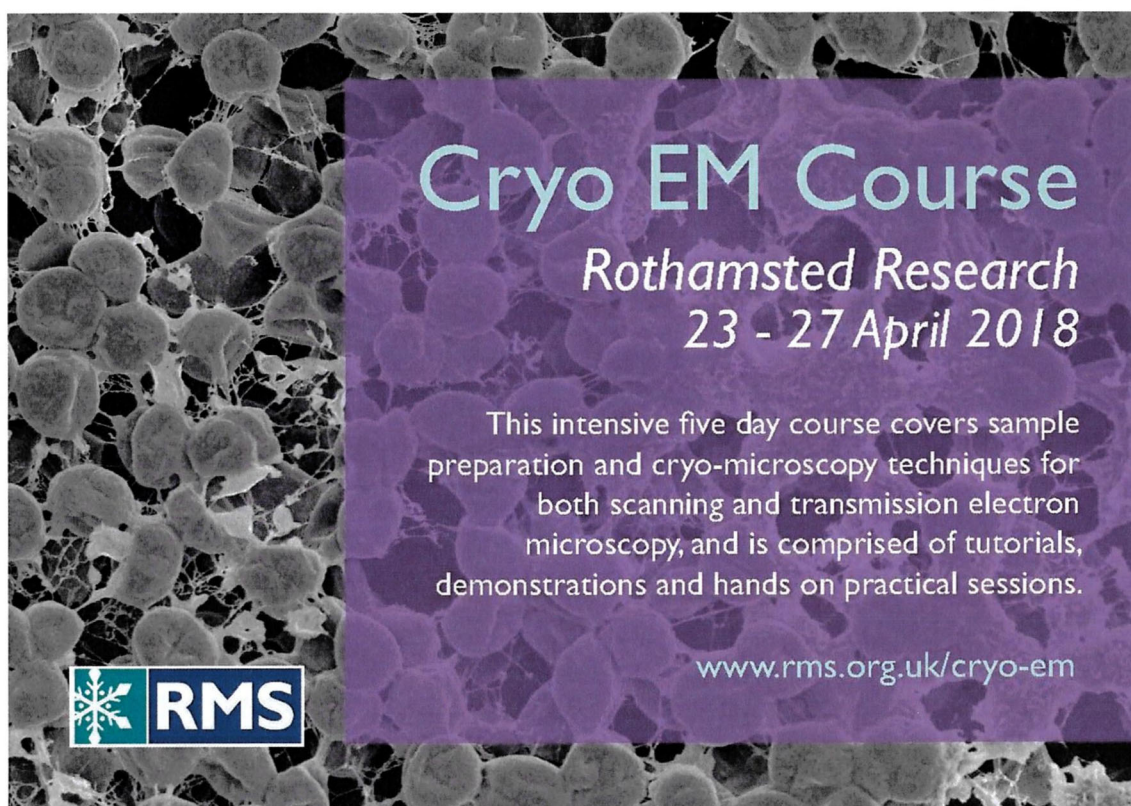
**Using Sub-Sampling/Inpainting to Control the Kinetics and Observation Efficiency of Dynamic Processes in Liquids**



*Prof. Nigel Browning,  
University of  
Liverpool*

16:20

**Concluding remarks, closing of the meeting**

The background of the poster is a grayscale electron micrograph showing a dense network of interconnected, rounded, and elongated structures, possibly biological or synthetic materials, with a complex, porous appearance.


# Cryo EM Course

## Rothamsted Research

### 23 - 27 April 2018

This intensive five day course covers sample preparation and cryo-microscopy techniques for both scanning and transmission electron microscopy, and is comprised of tutorials, demonstrations and hands on practical sessions.

[www.rms.org.uk/cryo-em](http://www.rms.org.uk/cryo-em)

The logo for Rothamsted Research (RMS) features a stylized snowflake or molecular structure icon to the left of the letters "RMS" in a bold, sans-serif font, all contained within a dark rectangular box.