

NMR Discussion Group December Meeting 2023

Thursday the 14th of December 2023

The Royal Society of Chemistry, Burlington House, London, W1J 0BD

10:00 – 10:25 **Registration and refreshments**

Morning session Chair: D. Flemming Hansen, <i>University College London</i>	
10:30 – 11:10	G. Marius Clore, NIDDK, National Institutes of Health, USA "Using NMR to Quantitatively Probe Mechanisms of Fibril Formation: Huntingtin, Amyloid β42 and Hsp104."
11:10 – 11:35	Callum Gater, University of York "Overcoming the Insensitivity of ¹⁵ N NMR via SABRE for Use in Mixture Analysis and Diffusion Spectroscopy"
11:35 – 12:05	Frédéric Blanc, University of Liverpool "Ionic Diffusion in Solids: An NMR ViewPoint"
12:05 – 12:35	Ilya Kuprov, University of Southampton "The Wild and Wonderful World of ¹⁹ F NMR: A Computational Perspective
12:40 – 14:00	Lunch
Afternoon session	
Chair: Thomas Robertson, NMRDG ECR	
14:00 – 14:15	Andrew Gibbs, Treasurer of NMRDG "NMRDG Business"
14:15 – 14:45	John Griffin, Lancaster University "Investigating Structure and Dynamics in Confined Photoswitches by Solid-State NMR"
14:45 – 15:15	Galina Pavlovskaya, University of Nottingham "Exploring Diabetes, Osteoarthritis, and Long COVID: Novel Insights from ²³ Na MRS/MRI and Hyperpolarized Xenon-129 Lung Imaging"
15:15 – 15:40	Emma Gates, University of Manchester "New NMR Methods for Complex Mixture Analysis"
15:40 – 16:20	Pramodh Vallurupalli, Tata Institute of Fundamental Research, India "Exploring the Free Energy Surface of Proteins using CEST NMR Experiments"
16:20 – 16:30	Closing remarks: Melanie Britton, Chair of NMRDG
16:30 –	Refreshments and departure