

## NMR Discussion Group (NMRDG) December Meeting 2021

Thursday the 16<sup>th</sup> day of December 2021

Zoom

### Morning session:

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Chair: TBA

- 10.00 – 10.05 **Simon Duckett, Chair of NMRDG**  
*Introduction and welcome*
- 10.10 – 10.45 **Gottfried Otting**  
**The Australian National University, Canberra, Australia**  
*“Noncanonical amino acids for protein NMR”*
- 10.50 – 11.20 **Emma Borthwick**  
**University of St. Andrews, St. Andrews, UK**  
*“Using solid-state NMR spectroscopy to investigate mixed-metal MIL-53”*
- 11.25 – 12.00 **Marcel Utz**  
**University of Southampton, Southampton, UK**  
*“Microfluidic NMR for the study of live systems”*
- 12.05 – 12.40 **Melanie M Britton**  
**University of Birmingham, Birmingham, UK**  
*“Visualising and quantifying molecular processes in dynamic chemical systems”*
- 12.40 – 13.55 **Lunch**

### Afternoon session:

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Chairs: D Flemming Hansen and Gabriella Heller, **University College London, UK**

- 13.55 – 14.10 **Iain Day and Andy Gibbs**  
*“NMRDG Business”*
- 14.10 – 14.15 **Nasima Kanwal**  
*“Connect NMR UK”*
- 14.20 – 14.55 **Mads S Vinding**  
**Aarhus University, Århus, Denmark**  
*“DeepControl: AI-Powered Pulse Sequence Design for MRI”*
- 15.00 – 15.35 **Anja Böckmann**  
**CNRS/Université de Lyon, Lyon, France**  
*“Solid-State NMR of Viral Proteins”*
- 15.40 – 16.15 **Julie D Forman-Kay**  
**The Hospital for Sick Children, Toronto, Canada**  
*“Phase Separation of Intrinsically Disordered Protein Regions: Biological Roles and NMR Insights”*
- 16.20 – 16.30 **Closing remarks: Simon Duckett, Chair of NMRDG**