Application of NMR to Materials Chemistry

Thursday 30th April

AstraZeneca (Charnwood site)
Bakewell Road
Loughborough
Leicestershire
LE11 5RH
Loughborough

The meeting will comprise 9 presentations focusing on NMR in materials chemistry. In addition there will be a talk describing the new National Solid-State NMR facility.

Programme

10.00 – 10.25 Registration and refreshments

10.25 – 10.30 Introduction and welcome

10.30 – 11.00 **Jeremy J. Titman, *University of Nottingham***

Solid-state NMR of disordered and heterogeneous nanomaterials

11.00 – 11.30 **Mike E. Ries, *University of Leeds***

NMR of polymer melts: From Rouse chains to networks

11.30 – 12.00 **Kenneth D. M. Harris**, ***Cardiff University***

In situ solid-state NMR strategies for probing adsorption processes, crystallization, and structural transformations

12.00 – 12.30 **Stephen C. Wimperis**, ***University of Glasgow***

Structure and dynamics in "superdense" magnesium silicate phases from the Earth's mantle

12.30 – 13.45 Lunch

13.45 – 13.55 **Dinu Iuga**, ***UK 850 MHz Solid-State NMR Facility***

Presentation of the UK 850 MHz National Solid-State NMR Facility

13.55 – 14.20 **John V. Hanna**, ***University of Warwick***

Development of solid-state ^{93}Nb and ^{25}Mg NMR in conjunction with density functional theory calculation

14.20 – 14.45 **Robin S. Stein**, ***European Centre for High-Field NMR, Lyon***

NMR crystallography of flutamide

14.45 – 15.10 **Adrian J. Wright**, ***University of Birmingham***

Amorphous bioceramics; probing structure when diffraction lets you down

15.10 – 15.40 Refreshment break

15.40 – 16.00 **David C. Apperley**, ***Durham Solid-State NMR Research Service***

Characterising morphology in a polymer membrane by solid-state NMR

16.00 – 16.30 **Steven P. Brown**, ***University of Warwick***

Measuring *J* coupling distributions by ^{31}P solid-state MAS NMR: New insight into disorder in phosphate glasses

16.30 – 16.35 Closing remarks