

Nuclear Magnetic Resonance Workshop

PRELIMINARY PROGRAMME

Venue: Room WSB 325, MOAC, 2nd Floor, Coventry House
and the NMR Laboratory Milburn House

Tuesday 7th December

09.15 – Registration and refreshments

10.00 - Introduction to NMR – Professor Steven Brown

- Basic Principles of NMR
- Chemical Shifts, coupling, relaxation times
- 1D Spectra (1H, 13C)
- MAS
- 2D NMR

13.00 – 14.30 Lunch, informal discussions

14.30 – 17.00 Afternoon Session – Milburn House

Practical NMR Spectroscopy – Dr Ivan Prokes

- Small molecules and mixtures
- Proteins/DNA
- Heteronuclei
- Variable temp – exchange
- Solid state
- EPR

Wednesday 8th December

08.45 – Refreshments

09.00 - Visiting Lecturer – Professor Gareth Morris (Manchester University)

- Polarisation transfer
- 2D NMR
- DOSY (diffusion ordered spectroscopy)

12.00 – 14.00 Lunch, informal discussions

14.00 – 17.00 Afternoon Session – MOAC

Lectures and Small Group Work

- NMR of Proteins - Dr Claudia Blindauer
- NMR Problem solving in small groups
 1. Heteronuclei
 2. Interpretation of 1D and 2D spectra