

# ISIS Muon High Field and User Meeting

6-7 September 2010

The Cosener's House, Abingdon,  
Oxfordshire, U.K.



## Monday, September 6, 2010

**10:30-11:00 Coffee, Tea and Biscuits**

**11:00-12:15 Session 1: High Fields and Muons**  
**Chairman: Adrian Hillier**

- 11:00-11:10 Welcome  
*Uschi Steigenberger (ISIS)*
- 11:10-11:40 HiFi Spectrometer  
*Philip King (ISIS)*
- 11:40-12:15 The High Field  $\mu$ SR Project at PSI  
*Elvezio Morenzoni (Paul Scherrer Institut)*

**12:30-13:30 Lunch**

**13:30-15:00 Session 2: Chemistry**  
**Chairman: Iain McKenzie**

- 13:30-14:00 High Field Muon Spectroscopy for Applications in Chemistry  
*Emil Roduner (Universität Stuttgart)*
- 14:00-14:30 Rates of Interfacial Transfer by ALC Muon Spectroscopy  
*Nigel Clayden (University of East Anglia)*
- 14:30-15:00 Characterization by Avoided Level Crossing Resonance of Organic Free Radicals in Hydrothermal Conditions  
*Jean-Claude Brodovitch (Simon Fraser University)*

**15:00-15:30 Coffee, Tea and Biscuits**

**15:30-17:30 Session 3: Superconductivity and Magnetism I**  
**Chairman: Stephen Blundell**

- 15:30-16:00 Magnetic state preparation for  $\mu$ SR measurements using magnetic fields  
*Zaher Salman (Paul Scherrer Institut)*
- 16:00-16:30 High Field  $\mu$ SR Investigation of Condensed Matter: Examples from Magnetism and Superconductivity  
*Alain Yaouanc (CEA Grenoble)*
- 16:30-17:00  $\mu$ SR on Systems Having Magnetization Plateaux  
*Peter Baker (ISIS)*
- 17:00-17:30 Probing Molecular Magnets with Muons and High Fields  
*Tom Lancaster (University of Oxford)*

**17:30-18:15 Session 4: ISIS User Meeting**  
**Chairman: Stephen Cottrell**

- 17:30-17:45 ISIS Update  
*Philip King (ISIS)*
- 17:45-18:00 EMU Spectrometer  
*Sean Giblin (ISIS)*
- 18:00-18:15 MuSR Spectrometer  
*Adrian Hillier (ISIS)*

**18:15-19:00 Pre-Dinner Drinks**

**19:00-21:00 Conference Dinner in The Cosener's House**

**Tuesday, September 7, 2010**

**09:00-10:30 Session 5: Semiconductors**  
**Chairman: Philip King**

- 09:00-09:30 Shallow-donor Muonium in Transparent Conducting Oxide Semiconductors  
*Tim Veal (University of Warwick)*
- 09:30-10:00 Electron Polarisation in High Magnetic Fields  
*James Lord (ISIS)*
- 10:00-10:30 Muonium Chemistry and Spin Dynamics in Sulphur  
*Stephen Cox (ISIS)*

**10:30-11:00 Coffee, Tea and Biscuits**

**11:00-12:45 Session 6: Muoniated Probes in Condensed Matter**  
**Chairman: Emil Roduner**

- 11:00-11:30 Using Muons as Probes of Electron Spin Relaxation in Organic Semiconductors  
*Alan Drew (Queen Mary, University of London)*
- 11:30-12:00 High Fields in the Study of Phthalocyanines and Oxides  
*João Pedro Pirote Pereira Duarte (Universidade de Coimbra)*
- 12:00-12:30 Muoniated Spin Probes in Soft Matter  
*Iain McKenzie (ISIS)*
- 12:30-12:45 Towards a Synergy Between  $\mu$ SR and Theory: Electronic Structure Determinations as a Predictive Tool  
*Greg Chass (Bangor University)*

**12:45-13:45 Lunch**

**13:45-15:15 Session 7: Superconductivity and Magnetism II**  
**Chairman: Sean Giblin**

- 13:45-14:15 Using Wide Field-Range  $\mu$ SR to Study Molecular Magnets and Spin Liquids  
*Francis Pratt (ISIS)*
- 14:15-14:45 Probing the spin dynamics in superconducting (YEr)Ni<sub>2</sub>B<sub>2</sub>C  
*Adrian Hillier (ISIS)*
- 14:45-15:15 High Magnetic Fields and Problems in Magnetism  
*Stephen Blundell (University of Oxford)*

**15:15-15:45 Coffee, Tea and Biscuits**

**15:45 Close of Meeting**