

# MICE Target – Status & Plans

Chris Booth

Sheffield

28<sup>th</sup> February 2006

# Since last CM:

- Regular meetings on mechanics Sheffield/RAL/Oxford
  - Convert standalone test setup → working device.
  - Engineering design for support and withdrawal mechanisms.
  - Material & techniques compatible with ISIS vacuum.
- Major progress in readout & control – **see Lara's talk.**
- Support frame under construction at RAL.
- Ceramic liner made, indium seals tested.
- **Not ready for planned January tests.**
- Measures in place to be ready for June.

# Why did we miss ISIS tests?

- New drives were over 3 months late.  
(Manchester connection!)
- Sheffield technician's accident – 1 month off work.
- Under-estimate of work involved  
(Sheffield & RAL ends)
- *But we learned a lot by trying!*

# Plans for (immediate) future

- Build our own drive units
- Facilities identified (within University or local companies) for:
  - Wire erosion of magnet material
  - Magnetisation
  - Coil winding
  - Vacuum potting of coils.
- Upgrade power electronics  $10\text{ A} \rightarrow \geq 40\text{ A}$ 
  - Manchester development in progress
  - Lancaster Elec. Eng. Dept. (via Rebecca Seviour)

# Major milestones

- Full mechanical assembly at RAL – end March
- Operate at RAL outside ISIS – end May
- Install & operate in ISIS – June.
  
- Detailed programme under preparation