

SPECIAL EDITION

IFS & Bits

A Photographic Record of the Installation of
Superconducting Magnets

Nuclear Magnetic Resonance Suite

Institute of Fundamental Sciences – Massey University
June – August 2004



David Marston (BioLab) and Helmut Jost (Bruker Germany)
unpack the 700 Magnet



The roof does come off



700 MHz magnet being hoisted from the packing case



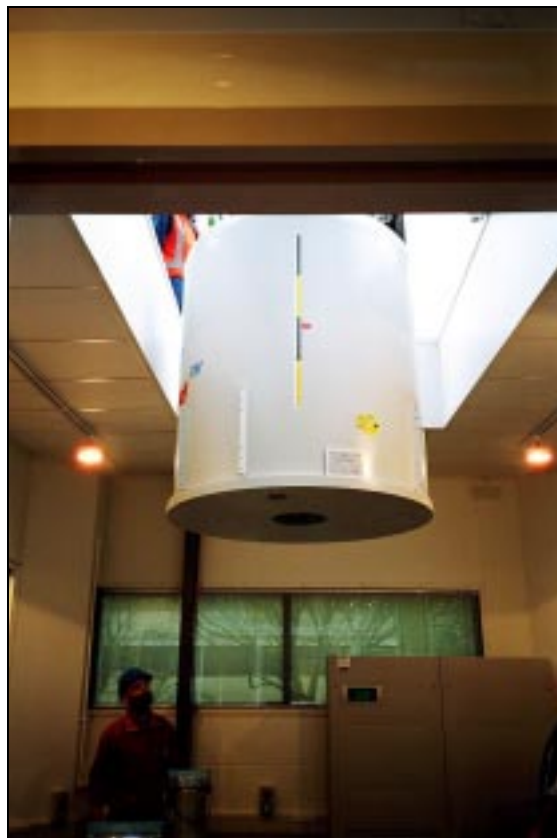
Gently and slowly



Gently does it



The magnet is aligned prior to lowering through the roof opening
watched by the Minister for Research, Science and Technology
Hon Pete Hodgson



Almost there



The 700 has almost landed watched by College of Science PVC Prof Robert Anderson, Head of Institute of Fundamental Sciences Prof David Parry, Labour List MP Dr Ashraf Choudhary and several others



700 firmly bolted to the support mounts and the floor



The calm before the storm - 700 in its air-conditioned room



A legless 500 MHz magnet in the NMR Suite prior to being raised onto its support mounts



The installation commences with the introduction of liquid nitrogen to start the cooling down process



"Invasion of the Daleks"
500 magnet waiting its turn to be commissioned
surrounded by liquid helium dewars



400 MHz and 500 MHz Magnets
with control consoles



Norbert Wetzel, (Bruker Germany)
running calibration spectra on the 700 MHz

Prior to the arrival of the 500 and 700 MHz Magnets the existing 400 MHz was relocated from one area of the NMR Research Laboratory to its new location. This was a slow and careful operation as the magnet was still up to field. Dr Pat Edwards, David Marston and Bob Parsons carried out the move on their hands and knees. Rob Ward and Terry Southern added their weight to the hoist at the appropriate moments.



400 on the trolley through the hole in the wall



Take the weight, the 400 about to be lifted to mount the support legs



First support leg



David and Pat



Bob Parsons and Rob Ward keeping an eye on the progress



Finished, the 400 MHz is in place
Pat Edwards, Bob Parsons and David Marston



Cherry Blossom Time, Science Tower B/C Car Park
A fitting reminder of better and brighter times to come for
IFS - NMR Research and Massey University

Photo credits:
Paul Buckley, Bob Parsons with assistance from Julie Locke
using David Marston's camera recording the very gentle
and slow relocation of the 400 MHz Magnet.