

# RAL

## DESIGN & DISCOVERY

### Open Days July 1990

**RUTHERFORD APPLETON LABORATORY**  
SCIENCE AND ENGINEERING RESEARCH COUNCIL

#### 'DESIGN AND DISCOVERY' at ISIS

There are nine areas where special exhibits have been mounted for the Rutherford Appleton Laboratory Open Days to explain the purpose of the ISIS Facility, how it works, the nature of the scientific research and the equipment and techniques used.

A brief description of the displays is given below with a map overleaf showing their locations.

- |      |    |  |
|------|----|--|
| Area | A. | An overview of the ISIS Facility   |
| Area | B. | The ISIS Main Control Room<br>Computer Control of the Accelerators and Target Station  |
| Area | C. | Data Acquisition for the ISIS experiments<br>Computer Control of Experiments<br>Data Analysis  |
| Area | D. | Experimental techniques and equipment - neutron detectors,<br>sample environment, neutron beam choppers<br><br>How the ISIS Target Station works |
| Area | E. | Scientific Research using Inelastic Neutron Scattering -<br>neutron spectroscopy and the dynamics of materials                                   |
| Area | F. | Scientific research using Elastic Neutron Scattering -<br>neutron diffraction and the structure of materials                                     |
| Area | G. | The Pulsed Muon Facility - beam line, experiments and muon<br>science  |
| Area | H. | The KARMEN Neutrino Experiment   |
| Area | I. | The ISIS Synchrotron   |



PLEASE FOLLOW THE ROUTE  
SIGNS IN THE BUILDINGS.

ISIS  
ENTRANCE

