# PROGRAMME

## British Biophysical Society and RSC NMR Discussion Group

## NMR OF PROTEINS AND THEIR INTERACTIONS

University of Leicester
Monday April 1 - Tuesday April 2, 1996

**Monday April 1**

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| 9.30 | Coffee & Registration |
| **10.30-13.00** | ***The state of the art - current methods*** |
| 10.30-11.15 | The Role of NMR in Structural Biology<br>K Wüthrich (E.T.H. Zurich) |
| 11.15-11.45 | A New Look at measuring Long Range Heteronuclear Coupling Constants in Proteins<br>D Neuhaus (MRC Cambridge) |
| 11.45-12.25 | An Approach to the Structure Determination of Larger Proteins Using Triple Resonance NMR Experiments in Conjunction with Random Fractional Deuteration<br>E Laue (Cambridge University) |
| 12.25-13.00 | Heteronuclear NMR Studies of FMN Binding Domain of Cytochrome P450 Reductase<br>I Barsukov (University of Leicester) |
| 13.00-14.00 | LUNCH |
| **14.00-17.30** | ***Protein Structure, signalling and interactions*** |
| 14.00-14.40 | Modular Proteins and their Interactions<br>I Campbell (Oxford University) |
| 14.40-15.20 | NMR and Functional Analysis of Dynamin PII Domain and Ligand Binding<br>P Driscoll (University College London) |
| 15.20-15.50 | TEA |
| 15.50-16.30 | Protein-protein Interactions in the Colicin E Family of DNase Antibiotics<br>G Moore (University of East Anglia) |
| 16.30-17.10 | Transferred NOE's and Selective Isotope Labelling in Large Proteins |

L-Y Lian (University of Leicester)

**Tuesday April 2**

**9.00-13.00** ***Protein interactions with small molecules and metals***

9.00-9.40 Ca2+ -binding in Intracellular and Extracellular Proteins: Structural and Dynamical Consequences
S Forsen (University of Lund)

9.40-10.20 Solution Structure of the Calcium-binding Protein S100β
P Kilby (University of Leicester)

10.20-10.50 COFFEE

10.50-11.30 Structural and Interaction Studies of Complexes of Dihydrofolate Reductase
J Feeney (MRC Mill Hill)

11.30-12.10 The Possibility of Using Paramagnetic Shifts and Relaxation for Structure Determination of Paramagnetic Metalloproteins
I Bertini (University of Florence)

12.10-12.50 Substrate-binding to Cytochrome P450
G Roberts (University of Leicester)

13.00-14.00 LUNCH

**14.00-16.00** ***Protein-nucleic acid interactions***

14.00-14.40 NMR Studies of Structure/Function Relationship of Single-stranded DNA-binding Protein of Filamentous Phages
C Hilbers (University of Nijmegen)

14.40-15.20 Structure and Binding of DNA Junction-resolving Enzymes
D Lilley (Dundee University)

15.20-16.00 How U1A Protein Recognises RNA
P Howe (University of Leicester)

16.00 CLOSE