

Experimental Techniques in NMR

organised by

The Nmr Discussion Group of the Chemical Society (London)

at

The University of Kent at Canterbury

April 8 – 10th 1974

TIME TABLE

The NMR Discussion Group is
grateful to the following
for financial assistance.

Bruker

JEOL

Varian

Shell Research, Sittingbourne

Pfizer Research, Sandwich, Kent

SPEAKERS AND TOPICS

Monday

- 2.00 Dr. D. G. Gillies
Recent advances n.m.r. techniques
- 3.00 Dr. D.I. Hoult* and Dr. R.E. Richards F.R.S.
31P resonance at 130 MHz
- 4.00 Dr. J.W. Emsley and Dr. J.C. Lindon
Separation of anisotropic and isotropic parameters for partially oriented molecules by sample rotation
- 4.30 Dr. C.A. de Lange
Liquid crystal n.m.r of POF_3
- 5.00 Prof. C.A. MacLean
Orientation by electric fields

Tuesday

- 9.00 Dr. P Mansfield
High resolution n.m.r. of solids - a review
- 10.00 Dr. A. Kumar
Spin locking and adiabatic demagnetisation using pulsed r.f. fields.
- 11.00 Dr. C. Dijkema
P.m.r. in macroscopically oriented smectic systems
- 11.30 Dr. N. Boden
A "solid" echo experiment for the determination of dipolar interactions
- 12.00 Dr. P.S. Belton, Dr. R.F. Bruynooghe, and Dr. K.J. Packer*
Pulsed n.m.r. studies of biological tissues
- 2.00 Prof. R.R. Ernst
Equivalence problems in pulse fourier and stochastic resonance
- 3.00 Dr. D. Shaw* and Dr. H.A.O. Hills
Flexible excitation
- 4.00 Dr. I.D. Campbell
Resolution problems with very large molecules
- 4.30 Dr. K. Schaumburg
Comparison of c.w. fast scan and f.t. spectroscopy
- 5.00 Dr. J.L. Delayre
CHIRP pulse fourier transform n,m.r. spectroscopy

WEDNESDAY

- 9.00 Dr. O. Lutz
N.m.r. investigations of less- common nuclei with weak signals.
- 10.00 Dr. R.K. Harris
Silicon-29 n.m.r. spectroscopy
- 11.00 Prof. H.G. Hertz and Dr. M. Holtz
N.m.r. relaxation of ionic nuclei in liquid by quadrupole interaction
- 11.30 Dr. M. Norris* and Prof. J.G. Powles
On line computers and n.m.r.
- 12.00 Prof. G.L. Martin* and Prof. M.L. Martin
Experimental aspects of barrier determination in ^{13}C n.m.r.

Papers for discussion in the Open Forum

Dr. C .A. Baker
The Development of n.m.r. Instrumentation at the P.C.M.U., Harwell

Dr. M.J.A. de Bie
Automated. methods for T_1 and N.o.e. determination

Dr. F. Heatley
On the measurement of n.m.r. T_1 relaxation times using repetitive sweep techniques

Dr. M. Imanari
High resolution ^{13}C T_1 measurements in solid adamantane

Dr. H.J. Jakobsen
High resolution uncoupled pulsed FT ^{13}C n.m.r. spectra of organic molecules in solution

Dr.R.Kaptein
CIDNP of biradicals