



EURACT-NMR Program

Wednesday, 27/01/2010

8:15 Registration

9:00 Greeting (**Joe Somers**, ITU)

9:10 Putting the nuclear back into nuclear magnetic resonance (**Ian Farnan**, University of Cambridge)

Modern NMR techniques and Methodology (Chair – Jean F. Desreux):

9:30 Laser-Polarized xenon for NMR and MRI (**Patrick Berthault**, CEA Saclay)

10:15-10:45 Coffee Break

Hyphenated techniques:

10:45 Association of molecules and ions as observed by electrokinetic and diffusion NMR (**István Furó**, Royal Institute of Technology)

11:30 Increasing NMR sensitivity (**Rainer Kerssebaum**, Bruker BioSpin GmbH)

12:15 Lunch

Solution state NMR (Chair – Zoltán Szabó):

13:30 Unprecedented structures driven by the phosphinamide linkage – a multinuclear NMR touch (**Ignacio Fernandez Nieves**, Universidad de Almería)

14:15 NMR at high temperature in molten fluorides for nuclear applications: in situ experimental approach of the speciation (**Catherine Bessada**, Université d'Orléans)

15:00 Probing the solution speciation and coordination environment of f-element complexes by NMR and emission spectroscopy (**Louise Natrajan**, University of Manchester)

15:30-16:00 Coffee Break

NMR in organic chemistry and structural biology:

16:00 Solid state NMR of membrane-active peptides (**Anne Ulrich**, Karlsruhe Institute of Technology)

16:45 NMR on Organocopper Compounds (**Ruth M. Gschwind**, Universität Regensburg)

17:30 New developments for the measuring of RDCs (**Peter Kaden**, KIT-INE)

18:00 Posters + Get together with refreshments

Thursday, 28/01/2010

Solid state NMR (Chair – Ian Farnan):

9:15 Paramagnetic lanthanide labelling for NMR structure determination in the liquid and in the solid state (**Guido Pintacuda**, Université de Lyon)

10:00 NMR at cryogenic temperatures (**Tony Horsewill**, University of Nottingham)

10:45-11:15 Coffee Break

11:15 NMR studies of energy storage and related materials (**Clare Grey**, *University of Cambridge*)

Actinide/radionuclide NMR studies (Chair – Herman Cho):

12:00 Studies of actinide nuclear magnetism in actinide compounds (**Russell E. Walstedt**, *University of Michigan – Ann Arbor*)

12:45 *Lunch*

13:45 Slow MAS methodologies towards radioactive materials (**Alan Wong**, *CEA-Saclay*)

14:15 Towards understanding the An(III)/Ln(III) selectivity of BTP and BTBP N-donor extracting agents (**Sascha Trumm**, *KIT-INE*)

15:00 *Departure visit to BRUKER Biospin GmbH, MRI division*

ca. 18:00 *Workshop Dinner, Watt's (Ettlingen)*

Friday, 29/01/2010

Actinide/radionuclide NMR studies – continued (Chair – Herman Cho):

9:00 NMR study of exotic magnetism and superconductivity in actinide compounds (**Shin Kambe**, *Japan Atomic Energy Agency*)

9:45 NMR applied to liquid-liquid separation enhancement (**Claude Berthon**, *CEA Marcoule*)

10:30-11:00 *Coffee Break*

11:00 Structural studies of simplified nuclear waste glasses (**Thibault Charpentier**, *CEA Saclay*)

11:45 *Lunch*

13:00 Presentation of European NMR access (**Daniel Meyer**) and Closing panel discussion (Members of the EU-NMR-An round table)

13:30 *Departure for Afternoon Lab tours (ITU + KIT-INE)*

ca. 16:30 *Lab tours end*