

XXXVII Finnish NMR symposium and the 17th Bio-NMR Workshop 15th-17th April, 2015

WEDNESDAY 15th April (FINNISH NMR SYMPOSIUM)

11:00–12:00 REGISTRATION AND LUNCH

12:00–13:45 NMR BASICS

12:00 - 12:10 Opening words (Pasi Soininen, University of Eastern Finland)

12:10 - 12:40 NMR today: When hardware, software, and human expertise work together (Jens Madsen, Bruker)

12:40 - 13:10 Structural Elucidation by 1D/2D NMR Techniques (Elina Sievänen, University of Jyväskylä)

13:10 - 13:30 JEOL's new NMR product line (Marco Schmidt, JEOL)

13:30 - 13:45 NMR for Industrial and Clinical Applications (Nicola Tonge, Bruker)

13:45 - 14:15 COFFEE & POSTERS

14:15 – 16:00 LOW FIELD NMR 1

14:15 - 14:55 Structure of Solids investigation by Time-Domain NMR (Leonid Grunin, Volga State University of Technology)

14:55 - 15:15 Low field NMR for determination of carbon chain length in fatty acids mixtures (Ekaterina Nikolskaya, University of Eastern Finland)

15:15 - 16:00 Low field NMR research at University of Eastern Finland and at Mikkeli University of Applied Sciences (Yrjö Hiltunen, University of Eastern Finland)

16:15 – 17:30 LOW FIELD NMR 2

16:15 - 16:30 Benchtop NMR in Kuopio (Janne Weisell, University of Eastern Finland)

16:30 - 16:50 Bench top NMR: Applications for industry, reaction monitoring and teaching (Andy McLachlan, Thermo Fisher Scientific)

16:50 - 17:10 Introduction to NMReady bench-top NMR spectrometers for teaching, research and analysis (Susanne Riegel, Nanalysis)

17:10 - 17:30 Developments in benchtop NMR spectroscopy (John Paul Cerroti, Magritek GmbH)

19:30 Dinner at Hotel Savonia

THURSDAY 16th April (BIO-NMR WORKSHOP / FINNISH NMR SYMPOSIUM)

08:30 - 08:55 REGISTRATION AND COFFEE

08:55 - 09:00 Opening of the Bio-NMR Workshop (Olli Gröhn, UEF)

09:00 – 10:45 MRI AND MRSI BASICS

09:00 - 09:30 Basics of MRI (Lauri Lehto, UEF)

09:30 - 10:15 Fast Imaging and spectroscopic imaging sequences (Mikko Kettunen, UEF)

10:15 - 10:30 Recent advances in preclinical MRI, UHF systems and CryoProbes, (Andrew Lonergan, Bruker)

10:30 - 10:45 MRI in Charles River Discovery Services – what are the future demands for MRI in drug research (Antti Nurmi, Charles River Laboratories, Kuopio)

10:45- 11.45 Lunch

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11:45 – 14:45 HYPERPOLARISATION AND LOW FIELD MRI

11:45 - 12:30 DNP in cardiac applications (Angus Lau, University of Oxford, UK)

12:30 - 13:15 DNP in cancer (Tiago Rodrigues, University of Cambridge, UK)

13:15 - 13:30 Break

13:30 - 14:00 Para-Hydrogen Induced Polarisation (PHIP) (Anne Selent, Oulu University)

14:00 - 14:45 Ultra low field MRI - towards MRI / MEG (Risto Ilmoniemi, Aalto University)

14:45 – 15:15 COFFEE & POSTERS

15:15 – 16:45 SPECTROSCOPY

15:15 - 16:00 High-throughput serum NMR metabolomics – towards large-scale epidemiology and genetics (Pasi Soinen, UEF)

16:00 - 16:45 Functional Magnetic Resonance Spectroscopy – can we do it and why should we bother? (Silvia Mangia, USA)

16:45-17:00 Closing of the Finnish NMR Symposium

19:00 Dinner at Koivumäki Mansion

FRIDAY 17th April (BIO-NMR WORKSHOP)

08:30 - 09:00 COFFEE

9:00 – 11:15 ADVANCED ENDOGENOUS and EXOGENOUS CONTRASTS

9:00 - 09:45 GlucoCEST: A novel metabolic contrast for MRI (Xavier Golay, University College London, UK)

09:45 - 10:30 MRI Phase and Susceptibility Imaging (Karin Shmueli, University College London, UK)

10:30 - 11:15 Advanced diffusion methods (HARDI) and the oscillating field gradient MRI (Manisha Aggarwal, Johns Hopkins)

11:15-12:00 Lunch

12:00-13:20 STUDENT TALKS

4 x 20 min talks from selected abstracts

13:20-13:50 COFFEE

13:50 - 15:15 ADVANCED ENDOGENOUS CONTRASTS CONTINUES

13:50 - 14:20 Rotating Frame Contrasts (Timo Liimatainen, UEF)

14:20 - 15:05 Beyond T1rho (Shalom Michaeli, CMRR, University of Minnesota, USA)

15:05 - 15:15 Closing of the Bio-NMR Workshop (Olli Gröhn, UEF)