

Wednesday June 4th

12:00 → Registration

12:30 – 14:00 Lunch

14:00 OPENING, Anu Kantola, *chair of the Finnish NMR Society*

SESSION 1: HYPERPOLARIZATION 1

Chair: Ville-Veikko Telkki

14:10 – 15:10 Igor Koptuyug: NUCLEAR SPIN ISOMERS OF MOLECULES: PROPERTIES AND APPLICATION FOR SIGNAL ENHANCEMENT IN NMR AND MRI

15:10 – 15:40 Vladimir Zhivonitko: NUCLEAR SPIN ISOMERS OF ETHYLENE: CHEMICAL SYNTHESIS AND AN NMR STUDY

15:40 – 16:10 Coffee

SESSION 2: IMAGING 1

Chair: Miika Nieminen

16:10 – 17:10 Timo Liimatainen: MRI CONTRASTS GENERATED USING FICTIOUS FIELDS IN HIGH-RANK ROTATING FRAMES

17:10 – 17:40 Jani Saunavaara: MR SPECTROSCOPY IN CLINICAL USE

17:40 – 18:10 Stefan Petersson: MR IMAGING USING HYPERPOLARIZED C-13; POLARIZATION METHODS AND IMAGING SEQUENCES

19:00 – Get-together

Thursday June 5th

SESSION 3: HYPERPOLARIZATION 2

Chair: Juha Vaara

9:00 – 10:00 Christian Hilty: DISSOLUTION DYNAMIC NUCLEAR POLARIZATION IN CHEMISTRY

10:00 – 10:30 Coffee

SESSION 4: THEORY AND COMPUTATION

Chair: Perttu Lantto

10:30 – 11:10 Juha Vaara: PHENOMENOLOGY OF NUCLEAR MAGNETO-OPTIC SPECTROSCOPY

11:10 – 11:40 Pär Håkansson: MERGING MD AND QM CALCULATIONS TO QUANTIFY SINGLET STATE RELAXATION

11:40 – 12:00 Marco Schwieder: LATEST PRODUCT NEWS FROM JEOL

12:00 – 13:00 Lunch

SESSION 5: METABOLOMICS

Chair: Mika Ala-Korpela

13:00 – 14:00 Johannes Kettunen: THE ROLE AND IMPORTANCE OF QUANTITATIVE SERUM NMR METABOLOMICS IN GENETICS AND SYSTEMS BIOLOGY

14:00 – 14:30 Peter Würtz: QUANTITATIVE SERUM NMR METABOLOMICS IN LARGE POPULATION STUDIES: IMPROVED UNDERSTANDING OF HEART DISEASE AND DIABETES

14:30 – 14:50 Dick Sandström: PRODUCT NEWS FROM BRUKER BIOSPIN

14:50 – 15:10 Patrik Jarvoll: CRAFT: A NEW WAY TO PROCESS YOUR NMR SPECTRA AND TO EXTRACT FREQUENCY AND AMPLITUDE INFORMATION

15:10 – 15:40 *Coffee*

SESSION 6: YOUNG SCIENTISTS

Chair: Anu Kantola

- 15:40 – 16:00 Kalle Koskensalo: CHEMICAL SHIFT IMAGING (CSI) BASED EVALUATION OF THE OUTCOME OF OUT-OF-HOSPITAL CARDIAC ARREST PATIENTS
- 16:00 – 16:20 Juho Roukala: NMR OF ^{129}Xe IN Fe_4L_6 CAGE IN AQUEOUS SOLUTION
- 16:20 – 16:40 Maiju Soikkeli: SYNTHESIS AND *IN VITRO* NMR AND PHANTOM MRI STUDIES OF FULLY ORGANIC FREE RADICALS
- 16:40 – 17:00 Jyrki Rantaharju: SPIN DYNAMICS SIMULATION OF ELECTRON SPIN RELAXATION IN $\text{Ni}^{2+}(\text{aq})$
- 17:00 – 17:20 Tommi Virtanen: WOOD PULP POROSITY STUDIED WITH NMR DIFFUSOMETRY AND CRYOPOROMETRY
- 17:20 – 17:40 Vasantha Gowda: STRUCTURE OF BISMUTH AND RARE EARTH METAL DITHIOCARBAMATE COMPLEXES: A COMBINED EXPERIMENTAL AND COMPUTATIONAL STUDY

17:40 – 19:00 POSTERS AND EXHIBITION

20:00 – *Dinner*

Friday June 6th

SESSION 7: IMAGING 2

Chair: Susanna Ahola

- 9:00 – 9:20 Stefan Petersson: THE CHALLENGE OF COMBINING MR IMAGING WITH POSITRON EMISSION TOMOGRAPHY
- 9:20 – 9:50 Matti Hanni: DETERMINATION OF CORRELATION TIME IN ARTICULAR CARTILAGE

9:50 – 10:20 *Coffee*

SESSION 8: NEW METHODS

Chair: Juhani Lounila

- 10:20 – 10:50 Susanna Ahola: ULTRAFAST MULTIDIMENSIONAL LAPLACE NMR
- 10:50 – 11:20 Ville-Veikko Telkki: MICROFLUIDIC REACTOR IMAGING WITH UNIQUE CHEMICAL RESOLUTION BY HADAMARD-ENCODED REMOTE DETECTION NMR

11:20 CLOSING, Anu Kantola, *chair of the Finnish NMR Society*

11:30 – 13:00 *Lunch*

11:30 – 12:30 *Spring meeting of the Finnish NMR Society (Suomen NMR-spektroskopiaseura ry) will take place in the same lecture hall right after the conference.*