

Monday, June 13th

12:00-14:00 Lunch
13:00-15:30 Bruker Users' Meeting
14:00-15:30 Registration for the XXXIII Finnish NMR Symposium

15:30-15:45 OPENING REMARKS OF THE XXXIII FNS
Elina Sievänen, Chair of the Organizing Committee

Session 1

Chair: Pasi Soininen

15:45-16:15 THEORY AND COMPUTATION OF MAGNETIC RESONANCE@OULU
Juha Vaara, University of Oulu

16:15-16:45 NMR IN SOME UNUSUAL APPLICATIONS
Jouko Vepsäläinen, University of Eastern Finland

16:45-17:15 Coffee

Session 2

Chair: Perttu Permi

17:15-18:15 DYNAMICS IN PROTEIN CRYSTALS: INSIGHTS FROM MD SIMULATIONS
COMPLEMENT NEW SOLID-STATE NMR AND X-RAY DATA
Nikolai Skrynnikov, St. Petersburg State University / Purdue University

18:15-19:15 Break

19:15 Get together in Peurunka

Tuesday, June 14th

Session 3

Chair: Kari Rissanen

- 09:00-09:30 EXPERIMENTAL NMR RESEARCH IN OULU
Ville-Veikko Telkki, University of Oulu
- 09:30 -10:00 THE UPDATE OF THE NMR LABORATORY OF JYVÄSKYLÄ UNIVERSITY
OPENS UP NEW POSSIBILITIES FOR STUDYING LARGE SYSTEMS
Elina Sievänen, University of Jyväskylä
- 10:00-10:30 NMR IN TURKU: NEW INSTRUMENTS AND THEIR APPLICATIONS
Jari Sinkkonen, University of Turku
- 10:30-11:00 USE OF MR SPECTROSCOPY IN TURKU UNIVERSITY HOSPITAL
Jani Saunavaara, Turku University Hospital
- 11:00-11:30 Coffee

Session 4

Chair: Perttu Permi

- 11:30-12:30 STUDIES OF GLYCOSAMINOGLYCAN-PROTEIN INTERACTIONS
Dušan Uhrín, University of Edinburgh
- 12:30-13:00 Sponsor's Contributions
- 13:00-14:00 Lunch

Session 5

Chair: Ville-Veikko Telkki

- 14:00-14:45 ENSEMBLE-BASED REPRESENTATIONS OF PROTEIN DYNAMICS USING
NMR-DERIVED PARAMETERS: METHODS AND APPLICATIONS
Zoltán Gáspári, Pázmány Péter Catholic University
- 14:45-15:05 MODELING XE-129 NMR IN POROUS MATERIALS: CAVITY PROPERTIES,
DYNAMICS AND UNKNOWN CRYSTAL STRUCTURE
Perttu Lantto, University of Oulu
- 15:05-15:25 NMR CHARACTERIZATION OF NANOPOROUS STRUCTURES IN SHALE
Bing Zhou, Tongji University

15:25-15:45 Coffee

Session 6

Chair: Jari Sinkkonen

15:45-16:15 NMR SPECTROSCOPY IN DEVELOPMENT OF CELL FACTORIES
Hannu Maaheimo, VTT

16:15-16:35 NUCLEAR SPIN-INDUCED CIRCULAR DICHROISM: THEORY AND
EXPERIMENTAL CHALLENGES
Petr Stepanek, University of Oulu

16:35-18:45 Poster session & Refreshments

18:45-19:15 Bus transportation to Varjolan tila

19:15 Conference Dinner at Varjolan tila

Wednesday, June 15th

Session 7

Chair: Erkki Kolehmainen

- 10:00-10:20 LOCAL AND GLOBAL DYNAMICS OF INTRINSICALLY DISORDERED PROTEINS: A CASE STUDY OF H4 HISTONE TAIL
Kerstin Kämpf, St. Petersburg State University
- 10:20-10:40 TOWARDS APPLICATIONS OF LONG-LIVED NUCLEAR SPIN-STATES GUIDED BY COST-EFFICIENT COMPUTATIONAL TOOLS
Pär Håkansson, University of Oulu
- 10:40-11:00 CHIRALITY AND KINETICS OF A SELF-ASSEMBLED Fe₄L₆ METALLOSUPRAMOLECULAR CAGE WITH GUESTS
Sanna Komulainen, University of Oulu
- 11:00-11:20 MULTIDIMENSIONAL RELAXATION AND DIFFUSION STUDIES OF A HALOGEN FREE IONIC LIQUID
Muhammad Asadullah Javed, University of Oulu
- 11:20-11:40 CHEMADDER: AUTOMATIC QUANTUM MECHANICAL SPECTRAL ANALYSIS OF COMPLEX SPECTRA AND LARGE DATA SETS
Pekka Laatikainen, University of Jyväskylä
- 11:40-11:50 CLOSING REMARKS OF THE XXXIII FNS
Elina Sievänen, Chair of the Organizing Committee
- 11:50-12:00 Meeting of the FNSS
- 12:00-13:30 Lunch
- 13:30-14:30 Bus transportation to Ylistönrinne campus
- 14:30-16:30 INAUGURATION OF THE NMR LABORATORY OF UNIVERSITY OF JYVÄSKYLÄ (NanoScience Center, Room YN121)

Opening words
Professor Perttu Permi

COMPLEX MIXTURES – A CHALLENGE FOR HIGH FIELD NMR
SPECTROSCOPY
Professor Dušan Uhrin, University of Edinburgh

Greetings
Dr. Daniel Mathieu, Bruker BioSpin
Dean Henrik Kunttu

Inauguration of the NMR spectrometer
Head of the Nanoscience Center Hannu Häkkinen
Professor Perttu Permi

Toasts