

Sunday

| Session Time | Session name | Time of the talk | Name of Speaker | Title |
|--------------|------------------------|------------------|-------------------|---|
| 12:00 | Open registration desk | 12:00 | | |
| 13:30-15:30 | Tutorial session | 13:30-14:10 | Marc Fleury | NMR relaxation and petrophysical properties |
| | | 14:10-14:50 | Bill (W.S.) Price | NMR Diffusion Measurements of Porous Systems and the Influence of Internal Magnetic Gradients - a Tutorial Overview |
| | | 14:50-15:30 | Eric Sigmund | Perspectives on porous media MR in clinical MRI |
| 15:30-16:00 | Coffee break | | | |
| 16:00-16:15 | Welcome / Opening | 16:00-16:15 | Dean of Faculty | |
| 16:15-17:45 | Plenary talks | 16:15-17:00 | Mark Conradi | Restricted Diffusion of Hyperpolarized Helium-3 to Probe Lung Structure |
| | | 17:00-17:45 | Bradley Chmelka | 2D NMR Studies of Local Order, Disorder, and Dynamics in Zeolites and Layered Silicates |
| 18:00 | Welcome reception | 18:00 | | |

Monday

| Session Time | Session name | Time of the talk | Name of Speaker | Title |
|--------------|--|------------------|---------------------|---|
| 9:00-10:30 | Micro- and nanostructured materials | 9:00-9:30 | Florence Gazeau | Intracellular confinement of magnetic nanoparticles by living cells: impact for imaging and therapeutic applications |
| | | 9:30-9:50 | Iain Hitchcock | MRI and PGSE NMR Studies of Long-range Pore-pore Interaction Effects in Gas Adsorption |
| | | 9:50-10:10 | Pavel Kortunov | Loading-Dependent Transport Properties of Zeolitic Imidazolate Frameworks Probed by In-Situ PFG NMR |
| | | 10:10-10:30 | Christina Wende | Micro- and nanostructure of polyelectrolyte multilayers as visualized by water spin relaxation and PFG diffusion |
| 10:30-11:00 | Coffee break | | | |
| 11:00-12:30 | Novel techniques, pulse sequences, and spin dynamics I | 11:00-11:30 | Michael Garwood | Detecting Fleeting MRI Signals with Frequency-Modulated Radio Waves |
| | | 11:30-11:50 | Marcel Gratz | MAS PFG NMR studies of mixtures in porous materials |
| | | 11:50-12:10 | Bruno Bresson | Strafi micro-profiling of fast relaxing slow moving species - From cement to confined polymers. |
| | | 12:10-12:30 | Hui Han | MR Imaging inside Metallic Vessels |
| 12:30-14:00 | Lunch break | | | Meeting of the steering committee |
| 14:00-15:30 | Poster session I | | | |
| 15:30-16:00 | Coffee break | | | |
| 16:00-17:40 | Porous media in renewable resources and food science | 16:00-16:30 | Geir Sørland | Characterization of heterogeneous systems by PFG-NMR |
| | | 16:30-17:00 | Luiz A. Colnago | High-Throughput low resolution NMR methods to analysis of agri-food products |
| | | 17:00-17:20 | Denis Grebenkov | Phase gradient spin-echo monitoring of restricted diffusion in multilayered structures |
| | | 17:20-17:40 | Ville-Veikko Telkki | The effect of thermal modification on microstructure of wood: PGSTE NMR, remote detection MRI and NMR cryoporometry studies |

Tuesday

| Session Time | Session name | Time of the talk | Name of Speaker | Title |
|--------------|--|------------------|------------------------|---|
| 9:00-10:30 | Porous media in environmental science | 9:00-9:30 | Gabriele Schaumann | Linking soil science with NMR Relaxometry: Potential and new challenges |
| | | 9:30-9:50 | Paméla Faure | Magnetic Resonance Imaging in real soils: Water content measure and microstructure probe |
| | | 9:50-10:10 | Natascha Spindler | Water flow investigation on quartz sand with 13-interval stimulated echo multi slice imaging |
| | | 10:10-10:30 | Laura-Roxana Stingaciu | Determination of hydraulic properties of model soil column using combined magnetic resonance imaging and multi-step-outflow experiments |
| 10:30-11:00 | Coffee break | | | |
| 11:00-12:30 | Porous media in medicine | 11:00-11:30 | Farida Grinberg | Diffusion in White Matter |
| | | 11:30-11:50 | Dmitry Novikov | Diffusion restricted by permeable membranes: Theory and applications in biological tissues |
| | | 11:50-12:10 | Valerij G. Kiselev | Effective Medium Theory of Diffusion and Transverse Relaxation in Heterogeneous Media |
| | | 12:10-12:30 | Michal Komlos | Axon diameter mapping of pig spinal cord using d-PFG filtered MRI |
| 12:30-14:00 | Lunch break | | | |
| 14:00-15:30 | Connected porous systems and multidimensional NMR approaches I | 14:00-14:30 | Jonathan Mitchell | Relaxation analysis of porous media at high magnetic field strengths: the influence of internal gradients |
| | | 14:30-14:50 | Jean-Pierre Korb | Using multi-frequency NMR relaxation for probing wettability in multimodal porous rocks |
| | | 14:50-15:10 | Kausik Ravinath | Multidimensional rotating frame correlation of relaxation dispersion |
| | | 15:10-15:30 | Martin Hürlimann | Determination of surface relaxivity and fluid configuration in fluid saturated porous media |
| 15:30-16:00 | Coffee break | | | |
| 16:00-17:30 | Fluids in Porous media I | 16:00-16:30 | Rustem Valiullin | Phase state and dynamics of fluids in mesoporous solids |
| | | 16:30-16:50 | Dominique Petit | Multiscale dynamics of ionic liquids confined in ionogel membrane for lithium batteries |
| | | 16:50-17:10 | Sergej Naumov | Memory Effects in Confined Fluids |
| | | 17:10-17:30 | Navin Gopinathan | Determination of the spatial location of coke in catalysts by a novel NMR approach |
| 19:00 | Conference Dinner | | | |

Wednesday

| Session Time | Session name | Time of the talk | Name of Speaker | Title |
|--------------|---|------------------|------------------|---|
| 9:00-10:20 | Novel techniques, pulse sequences, and spin dynamics II | 9:00-9:20 | Igor Mastikhin | Measurement of oscillatory motion in fluids |
| | | 9:20-9:40 | Jan Walbrecker | Improving estimates of nuclear-spin relaxation time (T_1) in surface-NMR experiments |
| | | 9:40-10:00 | Noam Shemesh | Observing diffusion-diffraction patterns in heterogeneous specimens using the double-PFG NMR methodology |
| | | 10:00-10:20 | Lukasz Zielinski | NMRDD and DISCORD: novel techniques to study relaxation dispersion of complex and heterogeneous fluids |
| 10:30-11:00 | Coffee break | | | |
| 11:00-12:30 | Connected porous systems and multidimensional NMR approaches II | 11:00-11:30 | Yi-Qiao Song | The use of internal magnetic field to characterize porous media |
| | | 11:30-11:50 | Seungoh Ryu | Spatially varying surface-relaxivity and diffusion-controlled magnetic relaxation in complex porous media |
| | | 11:50-12:10 | Lauren Burcaw | Propagator-resolved 2D exchange in porous media in the inhomogeneous magnetic field |
| | | 12:10-12:30 | Peter McDonald | NMR relaxometry of cement pastes |
| 12:30-14:00 | Lunch break | | | Meeting of the international scientific advisory committee |
| 14:00-15:30 | Poster session | | | |
| 15:40 | Excursion & After dinner talk | | Jörg Kärger | Signals in post-war ruins, five orders of magnitude and pore spaces explored by diffusion measurement |

Thursday

| Session Time | Session name | Time of the talk | Name of Speaker | Title |
|--------------|---|------------------|----------------------|--|
| 9:00-10:30 | CMMR 10 | 9:00-9:30 | Juan Perlo | Halbach arrays for NMR and MRI |
| | | 9:30-9:50 | Cedric Hugon | A consistent and systematic approach to the design, fabrication and testing of permanent magnets applied to single-sided NMR |
| | | 9:50-10:10 | Achim Gädke | NMR Halbach permanent magnet system for Antarctica |
| | | 10:10-10:30 | Ernesto Danieli | Temperature-compensated portable magnet built from permanent magnetic materials |
| 10:30-11:00 | Coffee break | | | |
| 11:00-12:30 | CMMR 10 | 11:00-11:30 | Anatoly Legchenko | Experience of large-scale NMR measurements in porous media |
| | | 11:30-11:50 | Ulrich Scheler | Polymers under mechanical stress- an NMR investigation |
| | | 11:50-12:10 | Maxime Van Landeghem | Single-shot depth profiling with a single-sided NMR sensor |
| | | 12:10-12:30 | Robin Dykstra | Mobile NMR systems for Antarctic sea ice studies |
| 12:30-14:00 | Lunch break | | | |
| 14:00-15:30 | Fluids in Porous media II | 14:00-14:30 | Bruce Balcom | Magnetic Resonance Imaging for Petroleum Reservoir Core Analysis |
| | | 14:30-14:50 | Jeffrey Paulsen | MRI of Contrast Agents in Porous Media |
| | | 14:50-15:10 | Philipp Zeigermann | Transport and high-pressure phase equilibria in mesopores |
| | | 15:10-15:30 | Konstantin Romanenko | Permeability mapping in porous media with magnetization prepared centric-scan SPRITE |
| 15:30-16:00 | Coffee break | | | |
| 16:00-17:45 | Hyper-polarization | 16:00-16:30 | Russ Bowers | Application of Hyperpolarized Xenon-129 NMR to Single File Diffusion and Exchange Dynamics in Nanoporous Materials |
| | | 16:30-17:00 | Samuel Patz | Pulmonary Physiology with Hyperpolarized ¹²⁹ Xe |
| | | 17:00-17:20 | Stefan Glöggler | Real-time detection of polymerization reactions with hyperpolarized Xenon at low magnetic fields |
| | Poster Prize, Giulio Cesare Borgia award and general MRPM assembly. Closing remarks | 17:20-17:45 | | |