



Conference Programme

Wednesday July 13th

10:00 - 11:00

Registration

11:00 - 11:10

Welcome

Session 1: Applications in Life Science and Medicine I

11:10 - 11:50

Keynote Lecture by D. J. Lurie
A Brief History of Field-Cycling Imaging

11:50 - 12:20

Invited Lecture by T. Apih
Field Cycling NMR of Pharmaceuticals

12:20 - 12:40

Lecture by S. Baroni
Low Field Relaxometry for Margin Assessment and Tumour Grading in Breast-Conserving Surgery

12:40 - 13:00

Lecture by J. Ross
Construction and Optimisation of a Six-Channel Torso Array for Cardiac Field-Cycling Imaging at 0.2 T

13:00 - 14:00

Lunch

Session 2: Molecular Dynamics in Porous Media

14:00 - 14:30

Invited Lecture by J. P. Korb
Magnetic Locking into Kerogen: Impact on Fluid Dynamics

14:30 - 14:50

Lecture by S. Stapf
Specific Surface Interaction of Fluids in Porous Glass - Relaxation Dispersion of Bicomponent Systems

14:50 - 15:10

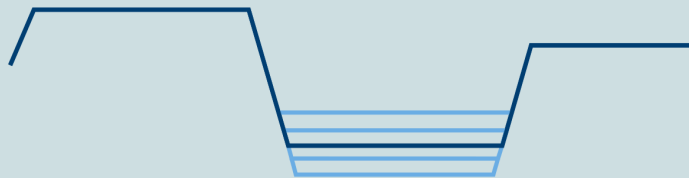
Lecture by J. Ward-Williams
Exploring the Competitive Adsorption of Water-Ethanol Mixtures in Mesoporous Silicas

15:10 - 15:40

Invited Lecture by P. Levitz
Multimodal Analysis of Confined Water Dynamics in a Mesoporous Catalyst Precursor: Focus on NMRD

15:40 - 16:10

Coffee Break



Session 3: Applications in Material Science I

- 16:10 - 16:40** **Invited Lecture by S. G. Greenbaum**
A Relative Newcomer's Journey in FFC Relaxometry: Batteries To Brains
- 16:40 - 17:00** **Lecture by I. Ardelean**
The Effect of Calcium Nitrate on Cement Hydration: Fast Field Cycling NMR Relaxometry Investigations
- 17:00 - 17:20** **Lecture by P. J. Sebastião**
Water Dynamics in Composite Aqueous Suspensions of Cellulose Nanocrystals and a Clay Mineral Studied through Magnetic Resonance Relaxometry
-
- 18:00** **Meet for Punting**
- 18:45** **Meet for Dinner**

Thursday July 14th

Session 4: Applications in Life Science and Medicine II

- 9:00 - 9:40** **Keynote Lecture by M. Botta**
FFC-NMR and the Development of MRI Contrast Agents: From Small Complexes to Nanosystems
- 9:40 - 10:10** **Invited Lecture by M. F. Roberts**
Defining Phospholipid Binding Sites on Amphitropic Proteins with High Resolution ³¹P Relaxometry
- 10:10 - 10:30** **Lecture by T. W. Price**
Towards Antibody Directed High-Contrast MRI Nanoprobes for Diagnosis of Stroke
- 10:30 - 10:50** **Lecture by V. Mallikourti**
Detection of Ischaemic Stroke in Patients Using Field Cycling Imaging
-
- 10:50 - 11:30** **Coffee Break + Posters**



Session 5: Theory and Data Analysis

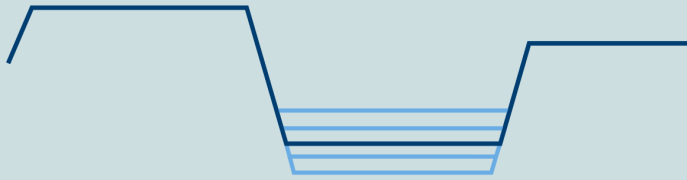
11:30 - 12:00	Invited Lecture by J. Kowalewski Wide-Range Relaxometry for Paramagnetic Systems: Data Analysis and its Pitfalls
12:00 - 12:20	Lecture by S. Sykora Insights Gleaned from a Review of NMRD Profiles
12:20 - 12:40	Lecture by B. Gizatullin Fast Field Cycling and Dynamic Nuclear Polarization: Beyond the Enhancement Value
12:40 - 13:00	Lecture by F. Zama ModelFreeFFC: A Regularization Approach to the Analysis of NMRD profiles
<hr/>	
13:00 - 14:00	Lunch

Session 6: Molecular Dynamics of Ionic Liquids

14:00 - 14:30	Invited Lecture by R. Ludwig Reliable Description of Rotational and Translational Motion in Ionic Liquids by Means of Field Cycling NMR Relaxometry And Molecular Dynamics Simulations
14:30 - 14:50	Lecture by M. Beira The Subtle Importance of Collective Motions on Isotropic Magnetic and Non-Magnetic Ionic Liquid Systems
14:50 - 15:10	Lecture by J. Beckmann Molecular Dynamics of Ionic Liquids from Fast Field Cycling NMR and Molecular Dynamics Simulations
15:10 - 15:40	Invited Lecture by D. Kruk Dynamics of Ionic Liquids by Means of NMR Relaxometry
<hr/>	
15:40 - 16:20	Coffee Break + Posters

Session 7: Applications in Life Science and Medicine III

16:20 - 16:40	Lecture by L. M. Broche Detection of Breast Lesions Without Use of Contrast Agents Using Field Cycling Imaging at Low Fields
16:40 - 17:00	Lecture by P. Pocan Exploring the Crystallinity of Turkish Delights by Using Magic Sandwich Echo Sequence (MSE)
17:00 - 17:20	Lecture by M. Mekhfi Mechanism of Relaxation of Rat's Blood, Red Blood Cells and Plasma at Different Temperatures



Friday July 15th

Session 8: Applications in Material Science II

9:00 - 9:40

Keynote Lecture by E. A. Rössler

NMR Relaxometry Accessing the Relaxation Spectrum in Simple and Polymer Glass Formers

9:40 - 10:10

Invited Lecture by P. R. Bodart

Water Dynamic and Mesh Size Distribution in Heterogeneous Polygalacturonic Acid Hydrogels Probed with FFC NMR Relaxometry

10:10 - 10:30

Lecture by A.-L. Rollet

Water Multiscale Dynamics in Hydrogel-Clay Composite

10:30 - 11:00

Coffee Break

Session 9: Instrumentation and Methods

11:00 - 11:30

Invited Lecture by M. C. D. Tayler

Field-Cycling Relaxometry in the Nanotesla to Millitesla Range

11:30 - 11:50

Lecture by E. Anardo

Field-Cycling MRI Relaxometry: Active Contrast and Dynamic Imaging

11:50 - 12:20

Invited Lecture by M. W. Malone

Challenges in Obtaining NQR Parameters from Fentanyl Citrate Using Fast Field Cycling Relaxometry

12:20 - 12:30

Closing Remarks

12:30 - 13:30

Lunch