

Alpine NMR Workshop 2016

(Frontiers of Magnetic Resonance: Applications to Nano- and Microscopically Structured Systems)

Cluj-Napoca, September 23-25, 2016

PROGRAM

Friday, September 23		
9.00	Rainer Kimmich	Fluid dynamics in Pores: Challenges and perspective
9.30	Janez Stepišnik	The nuts and bolts of MGSE method
10.00	Bernd Simon	Pulsed field gradient coherence selection and diffusion in heteronuclear pulse programs
Coffee break		
11.00	John Georg Seland	Compensating for internal gradients in modulated gradient spin echo diffusion measurements
11.30	Cristian Morari	Statistical analysis of the current distribution in the electrodes of lead-acid batteries
12.00	Coriolan Tiusan	Magnetization manipulation strategies in nonvolatile magnetic random access memories (MRAM)
12.30	Badea Codruta	Monitoring the ageing of motor oil via NMR investigations
Lunch		
15.00	Bányai István	Dendrimers in Magnet: NMR cryoporometry and diffusometry studies
15.30	Amalia Mesaros	Metal oxide nanoparticles from liquid phase synthesis to applications
16.00	Francisco Gallego-Gómez	Water in colloidal crystals: novel methods to investigate water adsorption
Coffee break		
17.00	Andrea Bede	The effect of silanized nanoparticles on the hydration and the properties of cement materials
17.30	Calin Cadar	NMR relaxation and diffusion studies of carbon aerogels and xerogels.
18.00	Ioan Ardelean	NMR relaxation under partially saturated conditions: applications to cement paste
Dinner		

Saturday, September 24

Excursion

Sunday, September 25

9.00	Andreas Pohlmeier	Imaging of Na enrichment in the soil - root compartment
9.30	Sabina Haber-Pohlmeier	To be announced
10.00	Ramona Bianca Mos	Electrochromic architecture for energy-saving windows
Coffee break		
11.00	Elmar Fischer	RF resonators for MRI applications
11.30	Andrea Bodor	Proteins - as seen by a combined NMR, SAXS approach
12.00	Traian Petrisor Jr.	Recent developments in the field of high temperature superconducting coated conductors for magnet applications
Lunch		
15.00	Oliver Neudert	T2-encoded Fast-Field-Cycling Relaxometry
15.30	Artur Lozovoi	^1H NMR dipolar-correlation effect as a method for the investigation of segments displacements of polymer melts
16.00	Mircea Nasui	$\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ superconducting thin films prepared by eco-friendly chemical solutions
Coffee break		
17.00	Carlos Mattea	Liquid crystals and ionic liquids studied by fast-field-cycling NMR
17.30	Siegfried Stapf	Load-dependent low-field profiling and relaxometry of osteoarthritic articular cartilage
Dinner		