

**3<sup>rd</sup> Transylvanian NMR Workshop:  
“Frontiers of Magnetic Resonance Applications to Nano- and  
Microscopically Structured Systems”**

**Cluj-Napoca**

**September 23 – 25, 2011**

- The Workshop will take place in **Hotel Fullton**, Cluj-Napoca  
str. Sextil Puscariu nr. 10  
tel./fax: +40 264 597 898  
tel.: +40 264 597 766  
(<http://www.fullton.ro> )
- The Workshop is jointly organized by  
**Physics Department of the Technical University of Cluj-Napoca**  
and  
**Fachgebiet Technische Physik II / Polymerphysik,**  
**Technische Universität Ilmenau**  
with the financial support from **Alexander von Humboldt foundation**
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## List of participants

Nr.	Name (affiliation)	Presentation title
1	Prof. Dr. Rainer Kimmich ( <i>Uni. Ulm</i> )	Correlation functions - the lingua franca of molecular dynamics?
2	Prof. Dr. Siegfried Stapf ( <i>TU Ilmenau</i> )	Q-dips revisited - why nitrogen can be your best friend
3	Prof. Dr. Janez Stepisnik, (Univ. Ljubljana)	Gradient spin echo as analytical tool for diffusion in porous media: revisited
4	Sergej Faletič (Univ. Ljubljana)	Measurement of diffusion spectrum with the modulated gradient spin echo method
5	Prof. Dr. Esteban Anardo (FaMAF-UNC Argentina)	Lipid dynamics and viscoelastic properties of liposomes membranes
6	Dr. Paul Denner ( <i>TU Ilmenau</i> )	Transverse proton spin relaxation behavior of polymers with Correlated spin-pairs below the upper glass transition
7	Sushanta Ghoshal ( <i>TU Ilmenau</i> )	Heterogeneities in Bio- and Synthetic Polymer Film Formation
8	Oliver Neudert	Hyperpolarization of $^1\text{H}$ , $^{19}\text{F}$ and $^{13}\text{C}$ by

	<i>(MPI Mainz)</i>	Overhauser-DNP in a mobile polarizer at 0.35T
9	Erik Rößler <i>(TU Ilmenau)</i>	Low-field orientational-dependent NMR relaxation and profiling MRI of bovine articular cartilage
10	Amin Ordikhani <i>(TU Ilmenau)</i>	NMR dipolar correlation effect of the stimulated echo applied to bulk and confined ionic liquids
11	Dr. Qingxia Gong <i>(TU Ilmenau)</i>	On line NMR investigation of chemical reactions
12	Anvar Gubaydullin <i>(Kazan F Univ. Rusia)</i>	The role of the intermolecular magnetic dipole-dipole interaction in kinetics of spin relaxation in polymer melts
13	Dr. Laura Stangaciu <i>(Forschungszentrum Juelich)</i>	Soil-root interaction investigated by MRI
14	Dr. Codruta Badea <i>(TU Cluj-Napoca)</i>	Monitoring the aging of BaZrO <sub>3</sub> coating solution by NMR relaxometry
15	Sergiu Muncaci <i>(TU Cluj-Napoca)</i>	NMR relaxation of fluids confined inside porous samples with controlled amount of magnetic impurities
16	Marius Simina <i>(TU Cluj-Napoca)</i>	NMR studies of ultra strong concrete samples
17	Ruben Nechifor <i>(TU Cluj-Napoca)</i>	NMR as a tool in monitoring the melting transition of polymeric nano-capsules
18	Prof. dr. ing. Daniela Manea <i>(TU Cluj-Napoca)</i>	To be announced
19	Luminita Molnar <i>(TU Cluj-Napoca)</i>	NMR studies of mortar hydration
20	Elena Jumate <i>(TU Cluj-Napoca)</i>	X-Ray diffraction and electronic microscopy studies of cement hydration
21	Dr. Claudiu Filip <i>(INCDTIM Cluj-Napoca)</i>	NMR Crystallography: present and prospects
22	Dr. Mircea Bogdan <i>(INCDTIM Cluj-Napoca)</i>	<sup>1</sup> H NMR spectroscopic characterization of inclusion complexes of tollfenamic and flufenamic acid with beta-cyclodextrin
23	Dr. Calin Floare <i>(INCDTIM Cluj-Napoca)</i>	Advances in Experimental and Computational Studies of Molecular Inclusion Compounds
24	Dr. Adrian Pirnau <i>(INCDTIM Cluj-Napoca)</i>	To be announced
25	Dr. Xenia Filip <i>(INCDTIM Cluj-Napoca)</i>	To be announced
26	Dr. Carmen Tripon <i>(INCDTIM Cluj-Napoca)</i>	To be announced
27	Prof.dr. Ioan Ardelean <i>(TU Cluj-Napoca)</i>	NMR relaxation of fluids inside partially saturated porous media

## The program

	<b>Friday</b> <b>23.09.11</b>	<b>Saturday</b> <b>24.09.11</b>	<b>Sunday</b> <b>25.09.01</b>
9.00	R. Kimmich	E. Anoardo	<b>Excursion</b>
9.40	C. Filip	M. Bogdan	
10.10	S. Ghoshal	A. Ordikhani	
10.40	Coffe break		
11.00	O. Neudert	E. Rößler	
11.30	C. Floare	L. Molnar	
12.00-	C. Badea	E. Jumate	
<b>LUNCH</b>			
15.00	S. Stapf	J. Stepisnik	
15.40	P. Denner	S. Faletič	
16.10	Discussions break		
16.30	L. Stangaciu	M. Simina	
17.00	Qingxia Gong	S. Muncaciu	
17.30	A. Gubaydullin	I. Ardelean	
18.00	<b>DINNER</b>		