



**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  
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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**

- Contact person:

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## List of participants

<b>Nr.</b>	<b>Name (affiliation)</b>	<b>Presentation title</b>
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 ( <i>MPI Mainz</i> )	Hyperpolarization of $^1\text{H}$ , $^{19}\text{F}$ and $^{13}\text{C}$ by 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 (Kazan F Univ. Rusia)	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	NMR studies of ultra strong concrete

	<i>(TU Cluj-Napoca)</i>	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 23.09.11</b>	<b>Saturday 24.09.11</b>	<b>Sunday 25.09.01</b>
9.00	R. Kimmich	E. Anardo	A. Gubaydullin
9.40	C. Filip	M. Bogdan	D. Manea
10.20	S. Ghoshal	A. Ordikhani	A. Pirnau
11.00	O. Neudert	E. Rößler	X. Filip
11.40	C. Floare	L. Molnar	C. Tripon
12.20	C. Badea	E. Jumate	I. Ardelean
<b>LUNCH</b>			
15.00	S. Stapf	J. Stepisnik	<b>Excursion</b>
15.40	P. Denner	S. Faletič	
16.20	L. Stangaciu	S. Muncaciu	
17.00	Qingxia Gong	M. Simina	
18.00	<b>Dinner</b>		