



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

**Cluj-Napoca  
September 18 – 21, 2009**

- 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 from Cluj-Napoca**  
**and**  
**Fachgebiet Technische Physik II / Polymerphysik,**  
**Technische Universität Ilmenau**
- **Contact person:**  
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## List of participants

Nr.	Name (affiliation)	The title of presentation
1	Prof. Dr. Rainer Kimmich ( <i>Uni. Ulm</i> )	NMR-keys to mesoscopic soft-matter dynamics
2	Prof. Dr. Siegfried Stapf ( <i>TU Ilmenau</i> )	From Brownstein-Tarr's model to water relaxometry of unsaturated soils: thirty years on, two more dimensions
3	Dr. Carlos Mattea ( <i>TU Ilmenau</i> )	Dynamics of molten organic salts under confinement studied by NMR
4	Sushanta Ghoshal ( <i>TU Ilmenau</i> )	Biopolymer Film Study by NMR and Calorimetric Techniques
5	Oliver Neudert ( <i>TU Ilmenau</i> )	Diffusion in porous media studied by unconventional NMR techniques
6	Ronald Lochte ( <i>TU Ilmenau</i> )	A numerical approach of NMR relaxation due to defect-diffusion mechanism
7	Lisandro Buljubasich ( <i>RWTH Aachen</i> )	Catalytic H <sub>2</sub> O <sub>2</sub> decomposition studied by NMR techniques. Episode II
8	Ayret Mollova ( <i>TU Ilmenau</i> )	Aging of Polyhydroxyalkanoates investigated by NMR and DSC techniques
9	Dr. Elmar Fischer ( <i>Uni. Hospital, Freiburg</i> )	Partitioning and localization of fragrances in surfactant mixed micelles
10	Laura Stangaciu ( <i>Forschungszentrum Juelich</i> )	Porosity measurements in model samples with low field NMR
11	Dr. Codruta Badea  ( <i>TU Cluj-Napoca</i> )	Aging effect of the BaZrO <sub>3</sub> and La <sub>0.66</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> coating solution studied by NMR relaxometry
12	Bianca Mos ( <i>TU Cluj-Napoca</i> )	Precursor chemistry for the solution deposition of epitaxial BaZrO <sub>3</sub> thin films
13	Mircea Nasui ( <i>TU Cluj-Napoca</i> )	Solvents influence on the copper precursor for YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> coating solution
14	Prof. Dr Mihai Todica ( <i>UBB Cluj-Napoca</i> )	Radiofrequency pulse sequences for selective NMR excitation
15	Assoc. Prof. Dr. Vasile Pop ( <i>TU Cluj-Napoca</i> )	To be specified
16	Ruben Nechifor ( <i>TU Cluj-Napoca</i> )	Polymeric nanocapsules: preparation and NMR characterization
17	Assoc. Prof. Dr. Radu Fechete ( <i>TU Cluj-Napoca</i> )	Nano-structured Biomaterials: A NMR study of collagen and keratin
18	Dumitrita Moldovan	T <sub>2</sub> -T <sub>2</sub> Exchange Processes in Ultra-

	<i>(TU Cluj-Napoca)</i>	Dynamical Systems. Two-Dimensional NMR Experiments and Monte Carlo Simulations
19	Dr. Claudiu Filip <i>(INCDTIM Cluj-Napoca)</i>	Pharmaceutical applications of solid-state NMR
20	Dr. Flaviu Turcu <i>(UBB Cluj-Napoca)</i>	Probing the Materials Structure by High Resolution NMR of Quadrupolar Nuclei
21	Dr. Bogdan Buhai <i>(AREVA, Germany)</i>	Nuclear Renaissance in XXI Century
22	Dr. Petru Pascuta <i>(TU Cluj-Napoca)</i>	To be specified
23	Dr. Marius Barlea <i>(TU Cluj-Napoca)</i>	An electrical view of the skin
24	Prof.dr. Ioan Ardelean <i>(TU Cluj-Napoca)</i>	NMR investigations of liquid morphology inside partially saturated porous media

## The program

	<b>Friday 18.09.09</b>	<b>Saturday 19.09.09</b>	<b>Sunday 20.09.09</b>	<b>Monday 21.09.09</b>
9-10	R. Kimmich	S. Stapf	E. Fischer	<b>Excursion</b>
10-11	C. Filip	M. Todica	F. Turcu	
11-12	S. Ghoshal	O. Neudert	R. Lochte	
12-13	L. Buljbasich	L. Stangaciu	I. Ardelean	
<b>LUNCH</b>				
15-16	R. Fecete	C. Mattea	M. Nasui	
16-17	D. Moldovan	R. Nechifor	B. Mos	
17-18	A. Mollova	P. Pascuta	C. Badea	
18-19		M. Barlea	B. Buhai	