### Wednesday, 11.02.2009

Arrival

Pre-conference lectures
Ago Samoson: NMR Fringe Phenomena
Marc Baldus: Studying Protein Function and Disease by High-Resolution Solid-State
19.30 - 20.00
Reception at Otočec Castle
20.00 - 22.00
Dinner

### Thursday, 12. 02. 2009

9.00	Opening Janez Plavec Gregor Golobič, minister, Ministry of Higher Education, Science and Technology Janko Jamnik, director, National Institute of Chemistry
9.30 - 10.30	Ivano Bertini: Mechanistic Systems Biology by NMR: Cellular Copper as an Example
10.30 - 11.00	Coffee break
11.00 - 12.00	<b>Harald Schwalbe</b> : Biomolecular Dynamics Characterized by NMR: From Fast Local Motions to Slow Global Folding
	Motions to slow Global Folding

	Residual Dipolar Couplings	Chair: Tibor Liptaj
12.00 - 13.00	Dušan Uhrín: Residual Dipolar Coupling Constants in NMR Struc	ture Elucidation
13.00 - 14.30	Lunch	
14.30 - 15.00	<b>Perttu Permi</b> : NMR Methods for Studying Protein Structure by Re Couplings	sidual Dipolar
15.00 - 15.30	<b>Christina M. Thiele</b> : The Use of RDCs in the Structure Determina Compounds	tion of Organic
15.30 - 15.50	Georg Kontaxis: Residual Dipolar Couplings in Protein Structure	Determination
15.50 - 16.10	<b>Nicholle G. A. Bell</b> : <i>Measurement of Proton-Carbon Residual Di</i> Constants Using Carbon Detection	polar Coupling
16.10 - 16.40	Coffee break	

#### **Biomolecular NMR I**

#### Chair: Robert Konrat

16.40 - 17.40	<b>Bernhard Brutscher</b> : New Tools for Parallel Screening of Protein Constructs, Fast NMR Resonance Assignment, and Real-Time Studies of Molecular Kinetics
17.40 - 18.10	<b>Igor Zhukov</b> : Three-Dimensional Structure of CsPin Protein from Archaeon C. symbiosum as Determined by NMR Spectroscopy
18.10 - 18.40	<b>András Perczel</b> : Calcium-Induced Tripartite Binding of Intrinsically Disordered Calpastatin to Its Cognate Enzyme, Calpain
18.40 - 19.00	<b>Klaus Zangger</b> : Structural Studies on Peptides and Proteins by Relaxation Enhancements Induced by an Inert and Soluble Paramagnetic Agent
19.00 - 20.30	Dinner
20.30 -	Poster session, drinks, courtesy of ARMAR AG

## Friday, 13. 02. 2009

	Biomolecular NMR II	Chair: András Perczel
9.00 - 10.00	<b>Oscar Millet</b> : Structural Basis for the Aminoacid Compos Halophilic Archea	ition of Proteins from
10.00 - 10.30	<b>Simona Golič Grdadolnik</b> : Conformational Preferences Chain – Protein Folding Problem	of Unfolded Polypeptide
10.30 - 10.50	<b>Zoltán Gáspári</b> : Assessing the Compliance of Protein Str Experimental NMR Data	ructural Ensembles with
10.50 - 11.10	<b>Miloš Hricovíni</b> : Explorations of Heparin-Oligosaccharic NMR	les-Proteins Interactions by
11.10 - 11.40	Coffee break	
11.40 - 12.10	<b>Claudio Dalvit</b> : A Comparison of Different NMR Techniq Based Screening	ues Applied to Fragment
12.10 - 12.40	Mirko Cevec: Investigation of 3D Structure of let-7 miRN	A:lin-41 mRNA Constructs
12.40 - 13.00	<b>Sabine Schultes</b> : NMR Studies of the Leader Protease of Virus	the Foot-and-Mouth Disease
13.00 - 14.30	Lunch	

#### **Fast and Novel Methods**

Chair: Janez Dolinšek

14.30 - 15.30	Lucio Frydman: Principles and Applications of "Ultrafast" Multidimensional NMR
15.30 - 16.00	<b>Krzysztof Kazimierczuk</b> : Narrow Peaks and High Dimensionalities: Exploiting the Advantages of Random Sampling
16.00 - 16.30	Martin Billeter: "Fast" NMR: Protein Characterization Using Projection Spectroscopy
16.30 - 17.00	<b>Wiktor Koźmiński</b> : Multidimensional NMR Spectroscopy Beyond Sampling Limitations
17.00 - 17.30	Coffee break

#### Hardware and Software News

Chair: Gregor Mali

- 17.30 18.00 **Péter Sándor**: The OneNMR Probe: A Unique Probe for the NMR of Small Molecules
- 18.00 18.30 Vadim E. Zorin: Probes for Solid-State NMR
- 18.30 18.50 Vratislav Blechta: Decoupling During Gradient Pulses?
- 18.50 19.10 Stanislav Sykora: Peak Shapes in NMR Spectroscopy
- 19.10 21.00 Dinner at Struga Castle
- 21.00 **Poster session**, drinks, courtesy of ARMAR AG

### Saturday, 14. 02. 2009

#### The Application of NMR to Small Molecules Chair: Jan Schraml

9.00 - 10.00	<b>Vladimír Sychrovský</b> : Theoretical Methods for Reliable Interpretation of NMR Spectroscopy Parameters
10.00 - 10.30	Predrag Novak: Ribosome-Macrolide Interactions Monitored by NMR
10.30 - 11.00	<b>Csaba Szántay</b> : On the "Philosophy" of Small-Molecule Structure Elucidation by NMR: the Human Factor
11.00 - 11.20	<b>Marta Bugaj</b> : Carbon-Carbon Spin-Spin Couplings <sup>n</sup> J(CC) (n = 1-3) and <sup>13</sup> C CP MAS Spectra of Enaminoketones with a Steric Hindrance
11.20 - 11.50	Coffee break
11.50 - 12.20	<b>Gábor Tárkányi</b> : The Story of an Intriguing Molecular Self-Recognition Phenomenon in Bifunctional Organocatalysis

12.20 - 12.40	<b>Agnieszka Sadlej</b> : Diamines as Ligands in Adducts of Dimeric Rhodium(Ii) Salts: NMR Investigation in Solid State and Liquid Phase
12.40 - 13.00	<b>Zoltán Szakács</b> : Is NMR-Based Small-Molecule Structure Elucidation Becoming "Routine"? Tales of the Unexpected!
13.00 - 13.20	<b>Michal Straka</b> : What Can Relativistic Effects in <sup>1</sup> H NMR Tell Us About Structure of Polyalcohole Amine Complexes
13.20 - 13.30	Announcement of the best poster award (short presentation)
13.30 - 15.00	Lunch
15.30 -	Social program:
	Excursion to Pleterje and Kostanjevica
	• Visit to wellness centre
	followed by St. Valentine's dinner

# Sunday, 15. 02. 2009

	Polymorphism and Solid-State NMR	Chair: Csaba Szántay
9.00 - 10.00	Robin K. Harris: NMR Crystallography & Polymorphism	
10.00 - 10.30	Ádám Demeter: Solid-State NMR from a Pharmaceutical Pers	spective
10.30 - 10.50	Jiri Brus: Poly(a)morphism of Pharmaceutical Solids: Simavastatins vs. Atorvastatin	
10.50 - 11.20	Coffee break	
11.20 - 11.50	<b>Gábor Szalontai</b> : ssNMR: The Effect of Rotor Size on Resolution Choise of Method. Benefits of High Speed Rotation. Practical A	on, Sensitivity and spects, Applications.
11.50 - 12.10	<b>Nonappa</b> : Solid-State NMR Studies on Low Molecular Mass On Into the Gelation, Formation of Inclusion Complexes and Solva	rganogelators: Insights ates
12.10 - 12.30	<b>Zvonko Trontelj</b> : Study of Polymorphism in Some Pharmaced Materials by Nuclear Quadrupole Resonance (NQR)	utically Interesting
12.30 - 14.00	Lunch	
14.00 - 15.00	Meeting of the Scientific Committee of MMCE 2011	
	Departure	