

# AMPERE NMR School

June 25<sup>th</sup> - July 1<sup>st</sup> 2017, Zakopane, Poland

# PROGRAMME

SUNDAY, June 25 <sup>th</sup>		MONDAY, June 26 <sup>th</sup>		TUESDAY, June 27 <sup>th</sup>		WEDNESDAY, June 28 <sup>th</sup>		THURSDAY, June 29 <sup>th</sup>		FRIDAY, June 30 <sup>th</sup>		SATURDAY, July 1 <sup>st</sup>		
		8:00-9:00	<i>Breakfast</i>	<i>Breakfast</i>		<i>Breakfast</i>		<i>Breakfast</i>		<i>Breakfast</i>		<i>Breakfast</i>		
		9:00-9:45	<b>B. Meier</b> SOLID-STATE NMR ON LARGER PROTEINS AND PROTEIN ASSEMBLIES: NEW OPPORTUNITIES	<b>M. Ernst</b> IMPROVING NMR EXPERIMENTS BY PRECISE CONTROL OF SPIN ROTATION		<b>J. Schmidt</b> MUSING ON DELUSIONS: WHY AMINOACID SIDECHAIN ROTAMERS ESCAPE 3J COUPLING CONSTANT ANALYSIS		<b>B. Blümich</b> THE NMR PHASE: K AND Q		<b>V. Chizhik</b> A FEW DEVELOPMENTS OF NMR IN THE EARTH MAGNETIC FIELD (NMREF)				
		9:45-10:30	<b>F. Fujara</b> 1H NMR AT LARMOR FREQUENCIES DOWN TO 3Hz BY MEANS OF FIELD-CYCLING TECHNIQUES	<b>W. Koźmiński</b> HIGH-RESOLUTION MULTIDIMENSIONAL NMR SPECTROSCOPY OF BIOMOLECULES		<b>J. Tritt-Goc</b> INFLUENCE OF MOLECULAR GEL MATRIX ON SOLVENT DYNAMICS STUDIED BY NMR DIFFUSOMETRY AND RELAXOMETRY		<b>D. Michel</b> NUCLEAR SPIN RELAXATION STUDIES OF MOBILITY OF MOLECULES ADSORBED IN POROUS MEDIA: SMALL MOLECULES EMBEDDED IN ZEOLITES AND RELATED MATERIALS		<b>V. Telkki</b> LAPLACE NMR				
		10:30-11:00	<i>Coffee Break</i>	<i>Coffee Break</i>		<i>Coffee Break</i>		<i>Coffee Break</i>		<i>Coffee Break</i>				
		11:00-11:45	<b>D. Kruk</b> UNIVERSAL FEATURES OF 1H RELAXATION IN PROTEINS AND QUADRUPOLEAR RELAXATION ENHANCEMENT	<b>J. Stepišnik</b> EXPLORATION OF TRANSLATIONAL MOLECULAR DYNAMICS BY NMR MGSE/OSGE METHODS		<b>D. Lurie</b> FAST-FIELD CYCLING MRI: T1-DISPERSION FOR ENHANCED MEDICAL DIAGNOSIS		<b>J. Spěvácěk</b> APPLICATION OF NMR SPECTROSCOPY TO STUDY THERMORESPONSIVE POLYMERS		<b>K. Kövér</b> NMR based techniques for characterizing ligand-protein interactions				
		11:45-12:30	<b>S. Stapf</b> BOVINE AND HUMAN CARTILAGE STUDIED BY LOW-FIELD AND VARIABLE-FIELD NMR RELAXOMETRY: CORRELATIONS FOR PRE-CLINICAL AND CLINICAL INVESTIGATIONS	<b>D. Topgaard</b> MULTIDIMENSIONAL DIFFUSION MRI		<b>A. MacKay</b> HOW TO MEASURE T2 IN BRAIN WITH AN MRI SCANNER?		<b>I. Kuprov</b> SIMULATION TOOLS FOR LARGE SPIN SYSTEMS AND COMPLICATED PULSE SEQUENCES		<b>F. Ferrage</b> MAGNETIC FIELD-DEPENDENT NMR: FROM 0.1 TO 23.5 T				
		12:30-13:30	<i>Lunch</i>	<i>Lunch</i>		<i>Lunch</i>		<i>Lunch</i>		<i>Lunch</i>				
		13:30-16:00												
		16:00-16:45	<i>Free Time</i>	<i>Free Time</i>				<i>Free Time</i>		<i>Free Time</i>				
		16:45-17:00	<i>Coffee Break</i>	<i>Coffee Break</i>				<i>Coffee Break</i>		<i>Coffee Break</i>				
		17:00-17:45	<i>On-line laboratory training</i>		<b>Excursion</b>		<i>On-line laboratory training</i>		<b>I. Felli</b> NMR OF INTRINSICALLY DISORDERED PROTEINS					
			Z. Fojud/ J. Jenczyk NMR relaxometry ( <sup>1</sup> H T <sub>1</sub> , T <sub>2</sub> ) Group 1	K. Szutkowski NMR diffusometry Group 2			Z. Fojud/ J. Jenczyk High resolution solid state NMR Group 1	Ł. Popenda/ I. Zhukov Two-dimensional NMR spectroscopy Group 2						
		17:45-18:00	<i>groups rotation</i>						<i>groups rotation</i>		<i>On-line laboratory training</i>			
		18:00-18:45	K. Szutkowski NMR diffusometry Group 1	Z. Fojud/ J. Jenczyk NMR relaxometry ( <sup>1</sup> H T <sub>1</sub> , T <sub>2</sub> ) Group 2					Ł. Popenda/ I. Zhukov Two-dimensional NMR spectroscopy Group 1	Z. Fojud/ M. J. Jenczyk High resolution solid state NMR Group 2	T. Zalewski/ M. Kempka MRI: basic principles and application Group 1 and 2			
			18:45-19:15	<i>walk to...</i>										
19:45	<i>Opening dinner</i>	19:00	<b>Dinner Regional Restaurant 19:15</b>		<b>Dinner</b>		<b>19:00 Dinner 20.15-21.00 ORGAN CONCERT Prof. D. Michel</b>		<b>Dinner</b>		<b>Certificates and poster prizes School Closing Dinner</b>			

Afternoon Arrivals & Accommodation

Departure