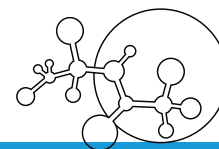


Program Synopsis

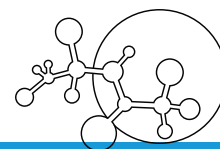
Black Forest Focus on Soft Matter 6

Saig, July 26-29, 2011



Tue, July 26	Speaker	Title
from 16:30	Arrival Check In	
18:30 - 19:30	Dinner	
Opening Lecture (Chair: Jan G. Korvink)		
20:00 - 21:00	David Hoult (CNRC)	Magnetic Resonance and Radio Waves or Scepticism is the Highest of Duties
Wed, July 27	Speaker	Title
Session 1 (Chair: Jan G. Korvink)		
09:00 - 09:30	John A. Sidles (University of Washington)	Transport Mechanisms for Inducing Dynamic Nuclear Polarization in Magnetic Resonance Microsystems: Dynamical Theory, Design Rules, and Experimental Protocols
09:30 - 09:45		
09:45 - 10:15	Martino Poggio (Basel University)	Recent progress in force-detected MRI
10:15 - 10:30		
10:30 - 11:00	Coffee Break	
Session 2 (Chair: Jürgen Hennig)		
11:00 - 11:30	John Lindon (Imperial College London)	NMR-based metabonomics in the clinic: the challenges of real-time patient phenotyping for diagnosis, optimised treatment and prognosis
11:30 - 11:45		
11:45 - 12:15	Stan Sykora (Extra Byte, Castano Primo)	Some Thermodynamic and Quantum Aspects of NMR Signal Detection
12:15 - 12:30		
12:30 - 14:00	Lunch Break	
14:00 - 17:30	Walk / Hiking Activity (ca. 2-3h moderate hiking)	
17:30 - 18:30	Free time	
18:30 - 19:00	Dinner	
19:00 - 22:00	Postersession	
Thu, July 28		
Session 3 (Chair: Marcel Utz)		
09:00 - 09:30	Bernhard Blümich (RWTH Aachen)	Small magnets and their use in NMR relaxometry, imaging, and spectroscopy
09:30 - 09:45		
09:45 - 10:15	Dimitris Sakellariou (CEA Saclay)	Miniaturized NMR and MRI
10:15 - 10:30		
10:30 - 11:00	Coffee Break	
Session 4 (Chair: Ulrike Wallrabe)		
11:00 - 11:30	Stan Sykora (Extra Byte, Castano Primo)	The Role of Relaxation in NMR Signal Detection
11:30 - 11:45		
11:45 - 12:15	Frank Engelke (Bruker Physik GmbH)	On quantum limits of electromagnetic fields in magnetic resonance
12:15 - 12:30		
12:30 - 14:00	Lunch Break	
Session 5 (Chair: Jürgen Hennig)		
14:00 - 14:30	Marcel Utz (University of Virginia)	Integrating Microfluidics and NMR Spectroscopy Through Wireless Coupling
14:30 - 14:45		
15:15 - 15:30	Vlad Badilita (Freiburg Universität)	Wirebonding technology for μ -MR methodology
15:30 - 16:00	Coffee & Cake	
Session 6 (Chair: Vlad Badilita)		
16:00 - 16:30	Luisa Ciobanu (CEA Saclay)	Progress in High Resolution Magnetic Resonance Microscopy at Ultra High Field
16:30 - 16:45		

>> continued on reverse



Thu, July 28 (continued)

16:45 - 17:15	Christian L. Degen (MIT)	Towards nanoMRI using scanning probe microscopy techniques
17:15 - 17:30		
17:30 - 18:30	Free time	
18:30 - 20:00	Banquet Dinner sponsored by Bruker AG	

Fri, July 29

Speaker

Title

Session 7 (Chair: Ulrike Wallrabe)

09:00 - 09:30	Hans W. Spiess (MPIP Mainz)	Signal Enhancement in NMR by Hyperpolarization
09:30 - 09:45		
09:45 - 10:15	Jan Bernd Hövener (University Clinic Freiburg)	¹³ C MR signal enhancement by parahydrogen hyperpolarization
10:15 - 10:30		
10:30 - 11:00	Coffee Break	

Session 8 (Chair: John A. Sidles)

11:00 - 11:30	Masoyoshi Esashi (Tohoku University)	Micro probes and coils for microscopic magnetic resonance imaging
11:30 - 11:45		
11:45 - 12:15	Tetsuo Kobayashi (Kyoto University)	Optically pumped atomic magnetometers toward ultra-low field MRI systems
12:15 - 12:30		
12:30 - 14:00	Lunch Break	
	Departure	