

3rd Ilmenau Symposium on Medical Application of Magnetic Nanoparticles and Ferrofluids (ISMAP)

27. & 28.08.2019

Technische Universität Ilmenau, Humboldt Building, Gustav-Kirchhoff-Platz 1,
Humboldt-Hörsaal

Tuesday 27.8.

15:00	Opening	J. Haueisen & S. Dutz / TU Ilmenau
15:10 - 15:50	D. Schüler <i>University Bayreuth</i>	KEYNOTE LECTURE 1: Biosynthesis and functionalization of bacterial magnetosome nanoparticles
15:50 - 17:50	Session "Synthesis and Characterization"	
15:50	R. Bleul <i>Fraunhofer IMM, Mainz</i>	Talk 1: Micromixer synthesis of single-core iron oxide nanoparticles with tunable properties
16:10	M. Hähsler <i>KIT IKFT, Karlsruhe</i>	Talk 2: Synthesis and Properties of Magnetic Nanoparticles with Anisotropic Shape
16:30	- coffee break -	
17:00	N. Lucht <i>University Hamburg</i>	Talk 3: Magnetic Behavior Studies of Cobalt Ferrite Nanoparticles in Physiological Compatible Concentrations
17:20	A. Malhotra <i>University Lübeck</i>	Talk 4: INSPECT: A novel tool for analysis of nucleation and growth of SPIONs
17:40	I. Rehberg <i>University Bayreuth</i>	Talk 5: Particle Size Characterization from Rectified Magnetization Curves
18:00	F. Ludwig <i>TU Braunschweig</i>	Talk 6: Dynamic behavior of magnetic nanoparticles in different media
18:30 - 20:00	Poster & Bratwurst	

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Wednesday 28.8.

9:30 - 10:10	D. Berkov <i>GNRL, Jena</i>	KEYNOTE LECTURE 2: Numerical modelling of ferrofluids: simulation methods and physical applications
10:10 - 11:30	Session "Imaging"	
10:10	T. Viereck <i>TU Braunschweig</i>	Talk 7: Magnetic Particle Imaging beyond concentration
10:30	P. Vogel <i>University Würzburg</i>	Talk 8: Magnetic Particle Imaging – From the Small to the Big World
10:50	M. Liebl <i>PTB Berlin</i>	Talk 9: Magnetic tracking of single microspheres to monitor fluid dynamics
11:10	A. Bakenecker <i>University Lübeck</i>	Talk 10: Actuation and visualization of a SPIO-coated swimmer with magnetic particle imaging
11:30 - 13:00	Lunch and Poster	
13:00 - 15:00	Session "Biomedical Application"	
13:00	P. Blümner <i>University Mainz</i>	Talk 11: Mag-Guider: permanent magnet systems to steer and image superparamagnetic nanoparticles
13:20	D. Zahn <i>TU Ilmenau</i>	Talk 12: A Drug Delivery Approach using Magnetic PLGA Microspheres
13:40	R. Tietze <i>Univ. Hospital Erlangen</i>	Talk 13: Superparamagnetic Iron Oxide Nanoparticles for MRI - new perspectives for an early idea
14:00	P. Schier <i>UMIT Hall in Tirol</i>	Talk 14: Magnetorelaxometry imaging of magnetic nanoparticles with optically pumped magnetometers and optimized sensing matrices
14:20	J. Clement <i>Univ. Hospital Jena</i>	Talk 15: SPIONs and inflammation
14:40	J.H. Chavez Vega <i>TU Ilmenau</i>	Talk 16: Gripping and Sensing Applications using Magneto-Sensitive Elastomers
15:00	Closing	S. Dutz / TU Ilmenau

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