

Program for the 2nd Summer School

“Magnetic nanoparticles for bio-applications”

Wednesday, 16.06.21

Magnetic Nanoparticles for Bio-Applications

GER	GR	ARM	
9:00	10:00	11:00	Opening/ZOOM Test Welcome
9:30	10:30	11:30	
9:30	10:30	11:30	<p style="text-align: center;">Maxim Abakumov <i>Pirogov Russian National Research Medical University</i> Magnetic nanoparticles in cancer theranostics</p>
10:15	11:15	12:15	
10:15	11:15	12:15	<p style="text-align: center;">Alexey Nikitin <i>Pirogov Russian National Research Medical University</i> Magnetic nanoparticles: a little bit more than just nanomedicine</p>
10:40	11:40	12:40	
10:40	11:40	12:40	Coffee break
11:00	12:00	13:00	
11:00	12:00	13:00	<p style="text-align: center;">Verónica Salgueiriño <i>University of Vigo, Spain</i> Taking advantage of the Magnetic Functionality in Self-propelled Swimmers</p>
11:45	12:45	13:45	
11:45	12:45	13:45	<p style="text-align: center;">Maria Efremova <i>Technical University of Munich, Germany</i> Iron (oxide) / gold nanoparticles - what can we learn from them?</p>
12:30	13:30	14:30	
12:30	13:30	14:30	Lunch
13:30	14:30	15:30	
13:30	14:30	15:30	<p style="text-align: center;">Galina Kurlyandskaya <i>University of the Basque Country UPV-EHU, Bilbao, Spain</i> Magnetic biosensors - multidisciplinary area of research and biomedical applications</p>
14:15	15:15	16:15	
14:15	15:15	16:15	<p style="text-align: center;">Yuliya Alekhina <i>Lomonosov Moscow State University, Russia</i> Magnetorheological materials: widening biomedical horizons</p>
15:30	16:30	17:30	
15:30	16:30	17:30	Coffee break
16:00	17:00	18:00	
16:00	17:00	18:00	<p style="text-align: center;">Iuliia Novoselova <i>Heinrich-Heine University, Düsseldorf, Germany</i> Bioinspired magnetic nanoproboscopes for mechanical and hyperthermal manipulation in single cells</p>
16:45	17:45	18:45	
16:45	17:45	18:45	<p style="text-align: center;">Hamid Kachkachi <i>University of Perpignan, France</i> Temporal profile of the temperature rise in ferrofluids: a theoretical approach</p>
17:30	18:30	19:30	

Thursday, 17.06.2021

Advanced Methods for Investigating Magnetic Properties

GER	GR	ARM	Chairman
9:00 10:00	10:00 10:30	11:00 11:30	Ralf Meckenstock <i>University of Duisburg-Essen, Germany</i> FMR as a tool for nano scaled magnetic characterization
10:00 11:00	11:00 12:00	12:00 13:00	Sara Laureti <i>Nanostructured Magnetic Materials Lab, Rom, Italy</i> EXAFS characterization of magnetic nanostructures
11:00 11:30	12:00 12:30	13:00 13:30	Coffee break
11:30 12:30	11:30 12:30	12:30 13:30	Andrei Rogalev <i>European Synchrotron Radiation Facility (ESRF), France</i> How X-rays help us to decipher enigmas of magnetism
12:30 13:30	13:30 14:30	14:30 15:30	Lunch
13:30 14:30	13:30 14:30	13:30 14:30	Thomas Feggeler <i>Lawrence Berkeley National Laboratory, USA</i> Element-specific detection of magnetization dynamics using Scanning Transmission X-ray Microscopy
14:30 15:30	15:30 16:30	16:30 17:30	Vasily Temnov <i>University of Le Mans, France</i> Ultrafast magneto-acoustics: ferromagnetic resonance, spin waves and magnetization switching
15:30 16:00	16:30 17:00	17:30 18:00	Coffee break
16:00 17:00	17:00 18:00	18:00 19:00	Anna Semisalova <i>University of Duisburg-Essen, Germany</i> THz emission spectroscopy for the investigation of ultrafast magnetization dynamics

3rd Training Workshop of MaNaCa Project

Friday, 18.06.2021

GER	GR	ARM	
9:00 10:30	10:00 11:30	12:00 13:30	Flavien Massi <i>Intelligentsia Consultants Sàrl, Luxembourg</i> Creativity and problem solving
10:30 11:00	10:30 11:15	11:30 12:15	Coffee break
11:00 12:00	12:00 13:00	13:00 14:00	Simon Kresmann <i>Graduate Center Plus, University of Duisburg-Essen, Germany</i> Academic career paths in Germany and Europe
12:00 12:45	13:00 13:45	14:00 14:45	Sara Letzner <i>EU officer Science Support Centre, University of Duisburg-Essen, Germany</i> EU funding programs for early-career researchers
12:45 14:00	13:45 15:00	14:45 16:00	Lunch
14:00 14:45	15:00 15:45	16:00 16:45	Sara Liebana Viñas <i>Evonik Industries AG, Germany</i> Great start at Evonik as a Spanish chemist
14:45 15:30	15:45 16:30	16:45 17:30	Hongbin Zhang <i>Technical University of Darmstadt, Germany</i> Introduction to Python programming language
15:30 16:00	16:30 17:00	17:30 18:00	Coffee break
16:00 17:00	17:00 18:00	18:00 19:00	Michael Farle <i>University of Duisburg-Essen, Germany</i> Hands-on approach of fitting experimental spectra
			Closing