## Tuesday, June 20, 2023

17:00 Welcome Reception at XYZ bar in Aloft Hotel

## Wednesday, June 21, 2023

Technical Sessions in Clemson University at Greenville ONE (1 N Main St, Greenville, SC 29601) 7:30 Breakfast at Greenville ONE Session 0: Opening Remarks (Jennifer Andrew and Thompson Mefford) 8:30 Introduction to Meeting: Dean Gramapadhve Session 1: Delivery and Bioapplications (Chair: Jennifer Andrew) 8:40 **Reimhult** Austria Polymer brush-grafted magnetic nanoparticles and magnetically triggered release from lipid and block copolymer vesicles Magnetic Screening Nanoplatform with Immobilized Transmembrane Receptors for Drug Discovery 9:30 Bao USA 9:55 Rosch Germany Amplification- and enzyme-free detection of viral nucleic acids and single-nucleotide mismatches using magnetic signal amplification circuit 10:20 Coffee Break Superparamagnetic Iron Oxide Nanoparticles (SPIONs) for Early Detection of Disease and for Theranostics Applications 10:45 Wong USA Magnetic nanocluster-based sensor for rapid diagnosis of pneumococcal pneumonia 11:35 Rivas Spain 12:00 Panel Discussion with Speakers from Session 1 12:25 Lunch on site Session 2: Imaging I (Chair: Sam Oberdick) 14:00 **Foster** Canada Magnetic Particle Imaging: A Novel Modality for In Vivo Cell Tracking 14:50 Viereck Germany Towards integrated hyperthermia application and monitoring for localized drug-release in magnetic particle imaging 15:15 Good USA Inter-user comparison for quantification of superparamagnetic iron oxides with magnetic particle imaging across two institutions highlights 15:40 Break (Poster presenters please hang your poster) 16:05 Mattingly Scaling Magnetic Particle Imaging from bench-top to humans for functional brain imaging USA Experimental Demonstration of Human-Sized Quantitative Imaging of Magnetic Nanoparticles with Nonlinear Magnetorelaxometry 16:55 Baumgarten Austria 17:20 Velazguez-Albin USA Effect of post-synthesis oxidation on magnetic particle imaging (MPI) performance 17:45 Panel Discusion with Session 2 presenters 18:00 Poster Session 19:30 Dinner in town with friends new and old

## **Thursday, June 22, 2023**

7.00	Prockfoot at Cr			
	Breakfast at Greenville ONE			
	Session 3: Career Panel - (Chair: Mas Crawford)			
8:00	0 Career Panel at Greenville ONE			
	Session 4: Material Challenges Theory and Synthesis (Chair: Carlos Rinaldi)			
9:00	Serantes	Spain	Some materials' science challenges to overcome towards successful application of magnetic nanoparticle hyperthermia	
9:50	Goldfarb	USA	Effective Demagnetizing Factors for Composites of Interacting Nanoparticles	

10:40 Coffee Break			-			
11:05 Rivera-Llabres USA Size tunable fabrication of magnetic alginate microparticles (MAMs) as architectural micropatterning porogens in hydrogels using magnetic   11:05 Tracy USA Surface Functionalization of Magnetite Nanoparticles for pH-Controlled Assembly and Modeling of Ligand Removal   11:55 Laha USA Shape anisotropic iron oxide nanostructures for cancer theranostics   12:20 Panel Discusion with Session 4 presenters Session 5: Particle Manipulation (Chair: Thompson Mefford)   14:00 Woods USA Traceable Thermometry and Thermal Imaging using Magnetic Nanoparticles   14:25 Crawford USA Traceable Thermometry and Thermal Imaging using Magnetic Nanoparticles   14:26 Crawford USA Traceable Thermometry and Thermal Imaging using Magnetic Nanoparticles   14:26 Crawford USA Tunability and Ordering in 2D Arrays of Magnetic Nanoparticles   14:25 Crawford USA Structure-property relationships in core-shell magnetoelectric nanowires -towards minimally invasive neural stimulation   15:40 Todd USA Three-Way Magnetic Sorting   16:05 Panel Discusion with Session 5 presenters Enjoy Greenville   18:00 Dinne at Greenville ONE Enterpresenters	10:15	Rahman	USA	Silica Coating of Iron Oxide Magnetic Nanoparticles by Reverse Microemulsion Method and their Functionalization with Cationic Polymer P		
11:30 Tracy USA Surface Functionalization of Magnetite Nanoparticles for pH-Controlled Assembly and Modeling of Ligand Removal   11:35 Laha USA Shape anisotropic iron oxide nanostructures for cancer theranostics   12:20 Panel Discusion with Session 4 presenters Session 5: Particle Manipulation (Chair: Thompson Mefford)   14:20 Woods USA Traceable Thermometry and Thermal Imaging using Magnetic Nanoparticles   14:20 Crawford USA Traceable Thermometry and Thermal Imaging using Magnetic Nanoparticles   14:20 Crawford USA Traceable Thermometry and Thermal Imaging using Magnetic Nanoparticles   14:25 Crawford USA Traceable Thermometry and Thermal Imaging using Magnetic Nanoparticles   14:25 Crawford USA Traceable Thermometry and Thermal Imaging using Magnetic Nanoparticles   14:26 Andrew USA Traceable Magnetic Sorting   15:40 Todd USA Magnetic Sorting   15:40 Todd USA Three-Way Magnetic Sorting   16:05 Panel Discusion with Session 5 presenters Enjoy Greenville   16:05 Directory June 233, 20233 Session 6: Imacing III (Chair; Paula Foster)	10:40	) Coffee Break				
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12:30 Session 7: Conference Closing (Chairs: Jennifer Andrew and Thompson Mefford)						
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## Poster Session: Wednesday, June 21, 2023

18:00 Poster Session					
Poster # Presenter	<u>Country</u>				
1 Bermudez-Berrio: USA		Amphiphilic surfactants to mediate the transfer of iron oxide nanoparticles from organic to aqueous solutions			
2 Caprow	USA	Developing a clinically useful ferrofluid to protect healthy optical tissue during plaque brachytherapy			
3 Engelhard	USA	Rotational Magnetic Drug Targeting – Comparison of Magnetomotive Systems			
4 Eswaran	USA	Design and properties of magnetic particle imaging (MPI) tracers using nitroDOPA anchored coatings			
5 Hauwaert	Belgium	Impact of biocompatible surface functionalisation of MNP on susceptibility, magnetisation and coercivity			
6 Hunter	USA	Quantitative measurements of the influence of polymer brush length on magnetic nanoparticle interactions and signal enhancement during			
7 Imhoff	USA	An Automated Fe Quantification Assay Using a Liquid Handling Robot			

8 Khan	Pakistan	Comparative Investigation of Magnetic, Di-Electric, Optical, and Electrical Properties of Mono BaFe2O4 and Hexa BaFe12O19 Nano Ferrit
9 Malaj	USA	Studying the Effect of Magnetic Nanoparticle Aggregation on the Effective Magnetic Anisotropy
10 McDonough	USA	Two-Dimensional Imaging Using a Single-Sided Field Free Line Magnetic Particle Scanner
11 Paul	USA	Designing Magnetic Nanoparticles and Nanocomposites for Use in Biomedical and Environmental Applications
12 Zhao	USA	Direct Synthesis of Monodisperse Water-Dispersible Iron Oxide Nanoparticles for Potential Biomedical Applications