Sunday, April 26, 2009

6:30 Registration and Cocktai Reception in Madren Center - Martin Inn Hospitality Suite featuring hor-d'oeuvres music by "Six Chickens and a Beer" formally known as "Faculty Gone Ferrel"

Technical Sessons to be held in Madren Center Ampitheater

Monday, April 27, 2009

8:00 Breakfa		
Session	n 0: Opening F	Remarks
8:30		Introduction to Symposium
Session	n 1: New area	as of characterization of magnetic materials (Chair: Shiou Jyh Hwu)
9:00 Cindi I	Dennis	New innovations of particle characterization with high resolution TEM imaging and magnetometry
9:35 Sara M	ajetich	Plasmonic Magnetic Nanoparticles for Biomedicine
10:10 Break		
Sessio	n 2: Synthesis	s of nanoscale magnetic materials (Chair: Mefford)
10:30 Judy R	liffle	Core-Corona Magnetic Nanostructures and their Properties in Physiological Media
11:05 Matous	sevitch	Metallic and bimetalic nanoparticles and Magnetic Fluids
11:25 Junwei	Wang	Nickel Phosphide Nanoparticles with Hollow, Solid, and Amorphous Structures
11:45 George	e Chumanov	Synthesis and Characterization of Magnetic Plasmonic Nanoparticles
12:05 Thomp	son Mefford	Controlled surface functionalization of iron oxide nanoparticles for field-responsive biomedical applications
12:25 Lunch	+ Poster Sessi	ion
Session	n 3: Magnetic	Mobility I (Chair: Zimmerman)
2:00 Randal	I M. Erb	Magnetic Tweezer Sensor for Measuring Binding Strength of Nonmagnetic Particles
2:20 Raoul	Kopelman	Asynchronous Rotation of Driven Magnetic Microspheres and Biomedical Applications
2:55 Daniel	Reich	New Probes of Sub-Cellular Force Transduction and Soft Matter using Magnetic Wires
3:30 Break		Magnetic Nanowires
Session	n 4a: Magneti	c Mobility II (Chair: Reich)
3:50 Ben Ye	llen	Magnetic Assembly of Colloidal Superstructures with Multipole Symmetry
4:25 Ben Sh	apiro	A System to inject therapeutically-coated magnetic nano-particles into the inner ear
4:45 M. Ovs	yanko	Magnotech: Magnetic label biosensor for point of care diagnostics
5:05 Jeff Anl	ker	Magnetically Orienting Aspherical Chemical and Physical Sensors
Session	n 4b: Career (Opportunities for Students
3:50 Earl Wa	agener	
4:25 Julie Tr	enor	
4:45 Gautan	n Bhattachary	ya
	-	Gautam Bhattacharyya, Cindi Dennis,
	~	t panel, + Hor d'oeuvres MRS students, Chem Students
6:00 First po	ontoon boat lea	aves
7:00 Dinner	at the Pavillion	n

Tuesday, April 28, 2009

Session 5: Biomedi	ical Imaging and Applications (Chair: Anker)	
8:30 Pete Zimmerman	Paramagnetic detection of Malaria Gametocytes has significant implications for global eratications program	
9:05 B. Berndl	Antibody Targeted Magnetic Nanoparticle Hyperthermia for Cancer Therapy	
9:25 Carlos Rindaldi	Magnetic Nanoparticles as a Tool for Cancer Treatment	
9:45 Vicki Colvin	Clean Water from Small Materials: Nanotechnology in the Environment	
10:15 Break		
Session 6: Biomedical Imaging and Applications II (Chair: Raoul Kopelman)		
10:35 Urs Hafeli	Title	
11:05 Vincent Schaller	Monte Carlo simulations of magnetic multi-core nanoparticles	
11:25 M. P. Nikitin	Detection of Magnetic Nanoparticls in vivo by New Room-Temperature Instruments	
11:55 K. Kornev	Magnetic needles and fibers versus nanoparticles in bioimaging and applications	
12:15 Mefford/Anker	Concluding Remarks	

Posters:

Randall M. Erb	Chain formation from Cells to Particles via Negative Magnetophoresis
Shiou-Jyh Hwu	ANa3M7 (PO4)6 (A = K, Rb, Cs; M = Mn, Fe, Co): New Magnetic Insulators Exhibiting Field-Dependent Magnetization
A. C. Johnston-Peck	Synthesis and Structural and Magnetic Characterization of Ni(core)/NiO(shell) Nanoparticles
Stephen Klaine	The Influence of Natural Organic Matter on the Fate and Effects of Carbon Nanomaterials
Crissy MacDonald	Oscillatory magnetic fields enhance transport of magnetic nanoparticles in viscous gel
Youngjun Yang	The structural Properties of Magnetite/porous silica nanocomposite and its application in cosmetics