## Monday, June 22, 2015

18:00 Welcome Reception Sponsored By Spherotech, New Sheridan Bar, 231 W Colorado Ave, Telluride, CO 20:00

### **Tuesday, June 23, 2015**

Technical Sessions and Breakfast to be held in main meeting room, Sheridan Opera House 110 N Oak St, Telluride, CO 81435

7:00 Breakfast at the Sherdian Opera House

1.00 Dieaklast at the 5				
Session 0: Openir	ng Remar	ks (Jennifer Andrew, Jeff Anker and Thompson Mefford)		
8:00 Thompson Meffor	d, Jennife	er Andrew, and Jeff Anker Introduction to Meeting		
_	ıg: MRI ar	nd related technologies (Chair: Tim St. Pierre)		
8:15 Shawn Chen	USA	Surface functionalization of magnetic nanoparticles		
8:55 Mark Bolding	USA	Iron oxide nanowhiskers as an intravenous contrast agent		
9:15 Stephen Russek	USA	NanoIron Phantom to Validate In-Vivo Iron Mapping		
9:35 Karl Stupic	USA	Nanofabricated Synthetic Antiferromagnets for Single Cell Tracking with MRI		
9:55 Jeff Anker	USA	Multifunctional particles for imaging through tissue with X-ray excited optical luminescence, fluorescence, and		
10:15 Coffee Break				
10:35 Richey Davis	USA	Toward Design of Magnetic Nanoparticle Clusters Stabilized by Biocompatible Diblock Copolymers for T2-Wei		
10:55 Yuping Bao	USA	Shape-Controlled Iron Oxide Nanoparticles for Magnetic Resonance Imaging		
11:15 Gary Zabow	USA	Microfabricated magnetic microparticles for enhanced in vivo MRI cell tracking		
11:35 Helene Rahn	Australia	a Long-term phantom for MRI and X-Ray imaging of body tissues enriched with magnetic nanocomposites		
12:05 Panel Discussion with Speakers from Session 1				
12:25 Lunch at the Oper	a House			
		nd other new technologies (Chair: Anna Samia)		
14:00 Kannan Krishnaı	n USA	Clinical translation of Magnetic Particle Imaging: The tracer perspective		
14:40 Dali Soukup	UK	AC Susceptometry as a Non-invasive Tool for Monitoring Magnetic Nanoparticles in Live Cells		
15:00 John Moreland	USA	Compact AC susceptometer for rapid monitoring of magnetic particle solutions		
15:20 Break				
15:40 <b>Lily Yang</b>	USA	Targeted and Image-guided Cancer Therapy using Theranostic Magnetic Iron Oxide Nanoparticles		
16:20 Jennifer Andrew	USA	Advances in Nanocomposite Design: Towards Multiferroic Biomaterials		
16:20 Renata Candido	Brazil	The Interaction Between Schistosome Eggs and Magnetic Microspheres		
16:40 Panel Discussion with Speakers from Session 2				
17:30 Poster Session at the Opera House				
19:30 Dinner in town with friends new and old				

# Wednesday, June 24, 2015

7:00 Breakfast at the Opera House

Session 3: Career Panel (Chair: Jeff Anker)

8:00 Career Panel at the Opera House

Session 4: Particle synthesis and modification (Chair: Joe Tracy)			
9:00 Anna Samia	USA	Hybrid Magnetic Nanocomposites for Antibacterial Applications	
9:40 Urs Häfeli	Canada	Monosized Magnetic Polymeric Microspheres: Production by Microfluidics Methods and Simulation	
10:00 Benjamin Evans	USA	High-Permeability Silicone Magnetic Microspheres	
10:20 Pilar Herrasti	Spain	Electrosynthesis in one step of magnetitepolydopamine	
10:40 Coffee Break			
11:00 Jin Xie	USA	Development of Novel T1 and T2 Contrast Agents for Magnetic Resonance Imaging	
11:40 Sandhya Moise	UK	Exploring suitability of biogenic zinc and cobalt doped magnetite nanoparticles for cellular biomedical applicati	

12:00 Thompson Mefford USA

Direct quantification of ligand surface coverage and a stable colloid-based platform for additional modification

12:20 Panel Discussion with Speakers from Session 4

12:40 Lunch (with new friends go explore Telluride)

#### 13:30 Explore The Telluride Surroundings (Sign up sheets)

10.00 Explore the fending cultivation up offices			
Session 5: Magnetically Modulated Energy Delivery (MagMED) (Chair: Thompson Mefford)			
17:00 Julian Carrey	France Overview on Theories to Describe Magnetic Hyperthermia Experiments		
17:40 Michael McPhail	Australia Theoretical modelling of the temperature profiles around magnetic nanoparticles in AC magnetic fields		
18:00 Tim St. Pierre	Australia Thermophoresis - a mechanism for magnetically triggered drug release from nanocomposites containing magnetically triggered drug release from nanocomposites drug release from the properties of t		
18:20 <b>Zach Hilt</b>	USA Development of Magnetic Nanoparticles and Nanocomposites for Medical and Environmental Applicat		
19:00 Panel Discussion with Speakers from Session 5			
19:20 Telluride Picnic - Telluride Flementary 447 W Columbia Ave			

## **Thursday, June 25, 2015**

7:30 Breakfast at the Opera House

Session 6: Drug/Gene Delivery (Chair: Lily Yang)			
8:30 Jon Dobson	USA	Biomedical Applications of Magnetic Nanoparticles: Remote Control of Cells	
9:10 Lisa Baurer	USA	Triggered Drug Release from Iron Oxide Nanochains: A Novel Drug Delivery Vehicle and Imaging Agent	
9:30 Sara Carreira	UK	Rapid magnetic labelling of stem cells using cationised magnetoferritin	
9:50 Lucia Gutiérrez	Spain	Effect of the transformations of nanoparticles in biological matrices on their magnetic properties	
10:10 Coffee Break			
10:30 Jim Klostergaard	USA	Probing the Enhanced Permeability and Retention (EPR) Effect in Solid Tumors to Guide Optimal Use of Nanc	
10:50 Rasam Soheilian	USA	Towards accumulation of drug-loaded magnetic nanoparticles in the pores between tumor cells	
11:10 Panel Discussion with Speakers from Session 6			
Specian 7: Postor Specian Winner (Chair: Tim St. Diorra, Joff Anker, Jannier Andrew, and Thompson Mofford)			

11:30 Travel Awards

11:40 Poster Session Winner Presentation

### 12:00 Lunch at the Opera House

Session 8: Particle Manipulation (Chair: Jennifer Andrew)

14:00 Ben Yellen	USA	Magnetophoretic Transistors for Single Cell and Particle Transport
14:40 Dietmar Lerche	Germar	ny A novel method for the fast characterization of magnetic properties of particles/beads and adhesion forces by
15:00 Lee Moore	USA	Continuous magnetic depletion of erythrocytes from whole blood with a quadrupole magnet and annular flow c
15:20 Tanner Pearson	USA	Customized nanoparticle self-assembly on perpendicular recording media
15:40 Break		
16:00 Joshua Martin	USA	3D Magnetic Printing of Discontinuous Fiber Composites using Magnetic Nanoparticles for Biological Application
16:20 Alek Nacev	USA	Concentrating Ferromagnetic Particles to a Central Target
16:40 Joe Tracy	USA	Selective Actuation of Elastomer Composites Containing Chained Magnetic Nanoparticles
17:00 Panel Discussion with Speakers from Session 8		

Session 10: Conference Closing (Chairs: Jennifer Andrew, Jeff Anker and Thompson Mefford)

17:20 Closing Remarks