MINT Fall Research Review
Monday, October 27, 2014
Tom Bevill Research Building, Room 1000

Session A

	7:15	Registration and Breakfast
	8:00 – 8:10	Welcome– *Carl Pinkert, Vice President for Research*
	8:10 – 8:40	Overview of the MINT Center– *Takao Suzuki, MINT Director*
A-1	8:40 – 9:10	Overview of the NSF G8 Program - High Performance Permanent Magnets Sustainable for Next Generation– *Takao Suzuki (ECE/MTE)*
A-2	9:10 – 9:40	Overview of the NSF DMREF Program - Designing Materials to Revolutionlize and Engineer our Future– *Bill Butler (PH)*
	9:40 – 9:50	**BREAK**
A-3	9:50 – 10:10	Oxide Spintronics Materials– *Arun Gupta (CH/ChBE)*
A-4	10:10 – 10:30	Systematic Search for New Half-metallic Heusler Alloys– *Patrick LeClair (PH)*
A-5	10:30 – 10:50	Vortex Core Motion driven by Thermal Spin Transfer Torque– *Claudia Mewes (PH)*
A-6	10:50 – 11:10	FePt(X) Nanorods and Multlilayered Films– *Su Gupta (MTE)*
A-7	11:10 – 11:30	Switching landscape of Spin Torque MRAM: Incoherent modes– *Pieter Visscher (PH)*
A-8	11:30 – 11:50	Carbon Nanotube Network-Silicon Oxide Non-Volatile Switches– *Paulo Araujo (PH)*
	12:00 – 13:00	**LUNCH (Bevill Research Building, Room 1000)** **ADVISORY BOARD MEETING (Bevill Research Building, Room 1003)**

Session B

B-1	13:10 – 13:30	Polymer Nanocomposites as New Thermoelectric Materials– *Greg Szulczewski (CH) and Hung-Ta Wang (ChBE)*
B-2	13:30 – 13:50	Terahertz generation and carrier dynamics of nanomaterials– *Margaret Kim (ECE)*
B-3	13:50 – 14:10	Biomedical applications and toxicity of iron oxide nanoparticles– *Yuping Bao (ChBE)*
B-4	14:10 – 14:30	Using Topological Surface States for Thermoelectrics– *Hung-Ta Wang (ChBE)*
B-5	14:30 – 14:50	Photoelectric Property Change Caused by Additional Nano-confinement: A Study of Half-Dimensional Nanomaterial– *Jinhui Song (MTE)*
	14:50 – 15:10	**BREAK**
B-6	15:10 – 15:30	Hard-Magnetic Alloy Formationin Magnetic Superlattices– *Rainer Schad (PH)*
B-7	15:30 – 15:50	Electronic Structure and Maximum Energy Product of MnBi– *Yang-Ki Hong (ECE)*
B-8	15:50 – 16:10	Broadband investigation of anisotropic magnetization relaxation in thin films– *Tim Mewes (PH)*
B-9	16:10 – 16:30	In Situ Characterization at MINT– *Gary Mankey (PH)*
C	16:30 – 18:00	**POSTER SESSION - RECENT RESEARCH RESULTS** **Refreshments (Beer, Wine and light Hors D'oeuvres)**
	18:00 – 20:00	**INFORMAL DINNER** **CYPRESS INN RESTAURANT (Crow's Nest Room)**