

***MINT Fall Research Review***  
**Tuesday, October 27, 2015**  
**Tom Bevill Research Building, Room 1000**

**Session A**

	7:15	Registration and Breakfast
	8:00 – 8:10	Welcome– <i>Carl Pinkert, Vice President for Research</i>
	8:10 – 8:40	Overview of the MINT Center– <i>Takao Suzuki, MINT Director</i>
A-1	8:40 – 9:10	Overview of the NSF G8 Program - High Performance Permanent Magnets Sustainable for Next Generation– <i>Takao Suzuki (ECE/MTE)</i>
A-2	9:10 – 9:40	Overview of the NSF DMREF Program - Heusler Alloys and Superlattices of Heusler Alloys– <i>Bill Butler (PH)</i>
	9:40 – 9:50	<b>BREAK</b>
A-3	9:50 – 10:10	Growth and Properties of Spinel Ferrite Thin Films and Heterostructures– <i>Arun Gupta (CH/CbBE)</i>
A-4	10:10 – 10:30	Directed search for novel Heusler alloys: the curious cases of FeTiSb and Fe <sub>2</sub> MnGe– <i>Patrick LeClair (PH)</i>
A-5	10:30 – 10:50	Theoretical design of materials for spintronic applications– <i>Claudia Mewes (PH)</i>
A-6	10:50 – 11:10	Progress in novel thin-film Heusler alloys, p-MTJs and advanced media– <i>Su Gupta (MTE)</i>
A-7	11:10 – 11:30	Incoherent Switching of STT-MRAM: Magnetostatic Instabilities– <i>Pieter Visscher (PH)</i>
A-8	11:30 – 11:50	Relaxation in materials for spintronics– <i>Tim Mewes (PH)</i>
	12:00 – 13:00	<b>LUNCH (Bevill Research Building, Room 1000)</b> <b>ADVISORY BOARD MEETING (Bevill Research Building, Room 1003)</b>

**Session B**

B-1	13:10 – 13:30	Using solute segregation effects to regulate intrinsic thin film growth stresses– <i>Greg Thompson (MTE)</i>
B-2	13:30 – 13:50	Ultrahigh Resolution Digital Image Sensor by Semiconducting Nanomaterials– <i>Jinhui Song (MTE)</i>
B-3	13:50 – 14:10	Development of Nanoplatfom for Tumor Imaging– <i>Yuping Bao (CbBE)</i>
B-4	14:10 – 14:30	THz Metamaterials and its application in slow light– <i>Margaret Kim (ECE)</i>
B-5	14:30 – 14:50	Thermal Energy Harvesting with Polymer-Doped Thermoelectric Materials– <i>Greg Szulczewski (CH)</i>
	14:50 – 15:10	<b>BREAK</b>
B-6	15:10 – 15:30	Electronic Structures of Fe-Mn-Pt for HAMR– <i>Yang-Ki Hong (ECE)</i>
B-7	15:30 – 15:50	Spin Arrangements in Epitaxial Intermetallic Films– <i>Gary Mankey (PH)</i>
B-8	15:50 – 16:05	A comprehensive FMR study of coupling strength and relaxation in asymmetric CoFe/Ru/CoFe exchange-coupled trilayer– <i>Behrouz Khodadadi (PH)</i>
B-9	16:05 – 16:20	Perpendicular anisotropy in permalloy thin films– <i>Jamileh Beik Mohammadi (PH)</i>
B-10	16:20 – 16:35	Magnetic Properties of Co <sub>3</sub> O <sub>4</sub> Nanoparticles Fabricated by Chemical Synthesis– <i>Anurag Chaturvedi (ECE/MTE)</i>
C	16:35 – 18:35	<b>POSTER SESSION - RECENT RESEARCH RESULTS</b> <b>Refreshments (Beer, Wine and light Hors D'oeuvres)</b>
	18:35 – 20:35	<b>INFORMAL DINNER</b> <b>CYPRESS INN RESTAURANT (Crow's Nest Room)</b>