Fall Research Workshop  
Tuesday, October 28, 2014  
Tom Bevill Research Building, Room 1000

7:00 - 8:00  **BREAKFAST**

8:00 - 8:10  Welcome Remarks by Vice President for Research Dr. Carl Pinkert

8:10 - 9:10  Dr. Jonathan Coker* (HGST, a Western Digital Company)  
"Opportunities and Challenges in Two Dimensional Magnetic Recording"

9:10 - 10:10  Dr. Ron Jansen* (National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan)  
"Silicon spintronics"

10:10 - 11:10  Dr. Tim St. Pierre* (The University of Western Australia)  
"Magnetic Materials in Medicine: Applications in Diagnosis, Management, and Treatment of Disease"

11:10 - 12:10  Dr. Gareth Hatch (Technology Metals Research)  
"Rare Earth Supply Chain Challenge"

12:10 - 13:20  **LUNCH**

13:20 - 14:20  Dr. Dieter Weller (HGST, a Western Digital Company)  
"Challenge in High Density HDD technology"

14:20 - 15:20  Dr. Weilie Zhou (University of New Orleans)  
"Three Dimensional Nanoarchitectures: Designing Next Generation Device"

15:20 - 16:20  Dr. Hans-Benjamin Braun* (University College Dublin, Ireland)  
"Topological Effects in Nanomagnetism: From Perpendicular Recording to Monopoles"

*IEEE Magnetic Society Distinguished Lecturers for 2014

For more information: Ms. Carrie Martin, Program Assistant cmartin@mint.ua.edu  
The University of Alabama  
Center for Materials for Information Technology (MINT)  
2005 Bevill Research Building  
Tuscaloosa, Alabama 35487  
www.mint.ua.edu