

THE UNIVERSITY OF ALABAMA

Center for Materials for Information Technology

Presents

“The Present and Future of Spintronics”

by

Professor Albert Fert

Winner of the 2007 Nobel Prize in Physics

**Friday, March 7, 2008
227 Gallalee Hall
1:30 pm**

Professor Fert was awarded the Nobel Prize in Physics in 2007 for the discovery (with Peter Gruenberg) of the phenomenon of Giant Magnetoresistance in 1988. This discovery is generally recognized as the birth of the new field of spin electronics or spintronics. Spintronics attempts to use the spin of the electron as well as its charge to manipulate electrons in devices. Professor Fert's talk will begin with an introduction to the fundamentals of spin dependent electronic conduction. It will then briefly cover Giant Magnetoresistance. Most of the talk will be devoted to recent developments in spintronics.

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