

Subject: Corrected Affiliation: MSD Colloquium, Bader, Thurs, 12/13, 11am, 212, A-157
From: Suzanne Kokosz <kokosz@anl.gov>
Date: Thu, 06 Dec 2007 10:36:47 -0600
To: Materials Science Division <msd@anl.gov>

MATERIALS SCIENCE COLLOQUIUM

SPEAKER: Sam Bader
Materials Science Division and
Center for Nanoscale Materials, ANL

TITLE: ³GMR Physics and the 2007 Nobel Prize:
An Argonne Perspective²

DATE: Thursday, December 13, 2007

TIME: 11:00 a.m.

PLACE: Building 212, Room A-157

HOST: John Schlueter

Refreshments will be available at 10:45 a.m

Abstract:

The 2007 Nobel Prize in Physics was awarded to Albert Fert of France and Peter Grünberg of Germany for independently discovering the ³giant magnetoresistive² (GMR) effect in 1988 in nanoscale magnetic multilayer films. Peter Grünberg was a visiting scientist at Argonne when he made a seminal precursor discovery that led the duo to their GMR discoveries. GMR helped usher in numerous computer innovations and the first commercial iPods, and has been identified by some as the first major application of nanotechnology. This talk will be filled with reminiscences and scientific background to put the discovery and its times into perspective from our unique vantage point at Argonne. The talk will conclude with a glimpse of the future of basic scientific research and its importance.

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