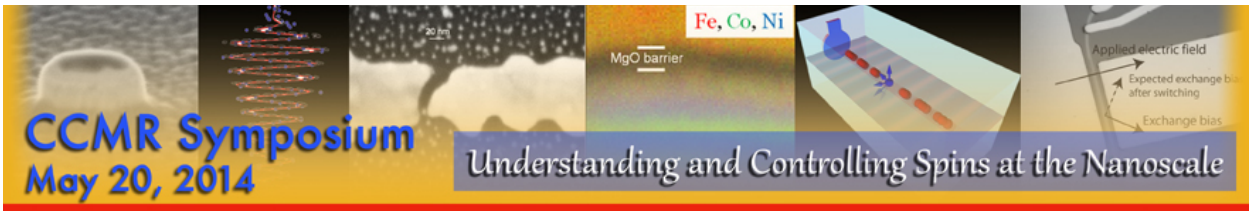

120 Physical Sciences Building (PSB), Cornell University

8:00 – 8:30 am **Breakfast & Registration – *PSB Clark Atrium***

8:30 – 8:45 am **Welcome Remarks and Introduction – *120 PSB***
Melissa Hines, Chemistry & Chemical Biology and Director of the CCMR; and Organizing Committee: Professors Dan Ralph, Physics; Greg Fuchs, Applied & Engineering Physics; and Robert Buhrman, Applied & Engineering Physics, and Senior Vice Provost for Research.

8:45 – 9:15 am **Spin Torques in Magnetic Multilayer Nanostructures**
Prof. Robert Buhrman, Applied & Engineering Physics, and Senior Vice Provost for Research.

9:15 – 10:00 am **Perpendicular Spin Torque MRAM**
Dr. Daniel Worledge, IBM Watson Research Center

10:00 – 10:45 am **Orthogonal Spin-Transfer Torque Devices**
Prof. Andrew Kent, Physics, NYU, Founder of Spin Transfer Technologies

10:45 – 11:00 am **Coffee Break & Posters – *PSB Clark Atrium***

11:00 – 11:30 am **Understanding and Using Spin-Phonon Interactions**
Prof. Greg Fuchs, Applied & Engineering Physics

11:30 – 12:00 pm **Spin Torque in Topological Insulator/Ferromagnetic Metal Bilayers**
Prof. Eun-Ah Kim, Physics

12:00 – 1:30 pm **Lunch – *PSB Clark Atrium - By Invitation and Tickets ONLY***

1:30 – 2:30 pm **Sproull Lecture – New directions in Spintronics: Magnetic Skyrmions, Spin-Orbitronics**
Prof. Albert Fert, 2007 Nobel Prize in Physics, CNRS-Thales Scientific Director, Palaiseau, France.

2:30 – 3:15 pm **Spin-Orbitronics: Interfacial Design of Spintronic Materials and Devices**
Prof. Geoffrey S. D. Beach, Materials Science and Engineering, MIT.

3:15 – 3:30 pm **Break**

3:30 – 5:00 pm **Poster Session – Reception & Refreshments – *PSB Clark Atrium***