The 1st RIEC International Workshop on Spintronics

-Spin Transfer Phenomena-

Date: February 8th (Wed.) – 9th (Thu.), 2006

Venue: Laboratory for Nanoelectronics and Spintronics, RIEC Tohoku University

Program

Feb. 8 th (Wed.)	
9:20	Opening H. Ohno (Organizer, Tohoku Univ., Japan)
9:30	Spin torque nano-oscillators; Experiment and theory T. Silva (National Inst. of Standards Tech., USA)
10:10	The diode effect in spin-transfer devices Y. Suzuki (Osaka Univ., Japan)
10:50	Coffee break
11:10	Sub-ns spin transfer switching of magnetization in nanopillars C. Chappert (Univ. Paris-Sud.,France)
11:50	Micromagnetic simulation on the dynamics for spin transfer magnetization switching K. Ito (Hitachi Europe, UK)
12:20	Lunch
14:00	Spin transfer: switching, microwave generation, synchronization A. Fert (Univ. Paris-Sud., France)
14:40	Current-driven magnetization reversal in MgO based MT Js with CoFe(B) electrodes J. Hayakawa (Hitachi Ltd., Japan)
15:10	Spin-transfer switching in MgO-based magnetic tunnel junctions H. Kubota (National Inst. of Advanced Industrial Science and Tech., Japan)
15:40	Coffee break
16:10	Critical current reduction in current induced magnetization switching for exchange-biased CPP-GMR devices Y. Jiang (Beijing Univ. of Tech., China)
16:40	Gilbert damping constants in various ferromagnetic thin films M. Oogane (Tohoku Univ., Japan)
17:10 (-17:40)	Pure spin current induced magnetization reversal without charge current Y. Otani (Univ. of Tokyo, Japan)
18:15- 20:00	Banquet —Sendai Kokusai Hotel; "Steakery Thirty"— (SS30 Bldg. 2-6-1 Chuo, Aoba-ku, Sendai phone: 022-267-8830)

Feb. 9th (Thu.)

9:40	Magnetic racetrack – a Novel storage class memory
	S. Parkin (Almaden Research Center, IBM, USA)
10:20	Current-driven domain wall motion in metal structures
	T. Ono (Kyoto Univ., Japan)
10:50	Coffee break
11:20	Domain wall devices for logic and data storage
	R. Cowburn (Imperial College London, UK)
12:00	Domain-wall motion driven by current in a ferromagnetic semiconductor (Ga, Mn)As M. Yamanouchi (Tohoku Univ., Japan)
12:30	Lunch
14:10	Current-driven domain wall dynamics: theory and simulation
	S. Zhang (Univ. of Missouri-Columbia, USA)
14:50	Threshold current in current-driven domain wall motion (theory)
	G. Tatara (Tokyo Metropolitan Univ., Japan)
15:20	Spin-transfer torque and spin-motive-force in magnetic nanostructures
	S. Maekawa (Tohoku Univ., Japan)
15:50	Coffee break
16:20	Micromagnetic simulation model of spin current induced domain wall motion
	Y. Nakatani (Univ. of Electro-Communications, Japan)
16:50	Domain wall resistance in ferromagnetic (Ga, Mn)As with perpendicular easy axis
	D. Chiba (Japan Science and Tech. Agency, Japan)
17:20	Theory of spin transport and spin transfer in modulated structures of (Ga, Mn)As
	T. Dietl (Polish Academy of Sciences, Poland)
18:00	Closing
(-18:10)	H. Ohno (Tohoku Univ., Japan)