

[Return to Session List](#)**Session Information**

Session Title: Tutorial on Magnetics-CMOS Integration

Session Abbreviation: XA

Client Session ID: 3

Session Type: Oral

Duration: May 4, 2009 7:00 PM -  
May 4, 2009 8:30 PM

Session Number Prefix:

Session Hosts: Session Chair: Albrecht Jander

Session Location: Room 311-313

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	622135	XA-01	Integrating magnetic tunnel junctions on CMOS: the challenges and successes of MRAM	Yiming Huai	Invited	7:00 PM 7:30 PM
2	622137	XA-02	Beyond MRAM: logic and computation with integrated CMOS/magnetic devices	Guillaume Prenat	Invited	7:30 PM 8:00 PM
3	622140	XA-03	Linear magnetics: Integrating inductors with magnetic materials into CMOS	Donald Gardner	Invited	8:00 PM 8:30 PM

**Session Information**

Session Title: Symposium on Current-Induced Domain-Wall Motions

Session Abbreviation: AA

Client Session ID: 5

Session Type: Oral

Duration: May 5, 2009 9:00 AM -  
May 5, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Peter Fischer

Session Location: Room 311-313

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	618442	AA-01	Racetrack memory: progress towards a current controlled magnetic domain wall based storage class memory	Stuart Parkin	Invited	9:00 AM 9:30 AM
2	614273	AA-02	Time resolved magnetic imaging of current-driven domain-wall and vortex dynamics	Guido Meier	Invited	9:30 AM 10:00 AM
3	618165	AA-03	Probing domain wall and vortex core dynamics by ac current - induced excitations	Mathias Klaui	Invited	10:00 AM 10:30 AM

4	617236	AA-04	Stochastic domain wall depinning under current in perpendicularly magnetized elements	Dafine Ravelosona	Invited	10:30 AM 11:00 AM
5	616350	AA-05	High DW velocity in Co/Ni with perpendicular anisotropy	Teruo Ono	Invited	11:00 AM 11:30 AM
6	616484	AA-06	Direct measurement of the non-adiabatic parameter in thin films with perpendicular magnetic anisotropy	Ioan Mihai Miron	Invited	11:30 AM 12:00 PM

**Session Information**

Session Title: Advanced Characterization Techniques

Session Abbreviation: AB

Client Session ID: 10

Session Type: Oral

Duration: May 5, 2009 9:00 AM -  
May 5, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Sung-Chul Shin

Session Location: Room 314

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608277	AB-01	Observation of localized ferromagnetic resonance in a continuous ferromagnetic film via magnetic resonance force microscopy	Evgueni Nazaretski	Oral	9:00 AM 9:30 AM
2	598156	AB-02	Imaging the spatial modulation of the spin polarization in nanostructures	Sebastian Wedekind	Oral	9:30 AM 9:45 AM
3	606013	AB-03	Vortex formation during magnetization reversal of Co slotted nanorings	Kai He	Oral	9:45 AM 10:00 AM
4	605037	AB-04	Individual channel conductance in a carbon nanotube field-effect transistor studied by magnetic force microscopy	Takuji Takahashi	Oral	10:00 AM 10:15 AM
5	607449	AB-05	Measurement of individual bond magnetostrictive strain in a-TbFe <sub>2</sub>	Matthew Ruffoni	Oral	10:15 AM 10:30 AM
6	615790	AB-06	Magnetic order and interfacial coupling in oxide thin films and heterostructures probed with soft x-ray dichroism	Elke Arenholz	Invited	10:30 AM 11:00 AM
7	620361	AB-07	Electron magnetic circular dichroism: a new experimental technique for studies of magnetism at nanometer scale	Jan Ruzs	Invited	11:00 AM 11:30 AM
8	608714	AB-08	Effect of disordered phase on the magnetic domain structure of FePt:C thin film - computer calculation of Lorentz TEM image	WanH Lee	Oral	11:30 AM 11:45 AM
9	606685	AB-09	Multiphysics modeling of photoinductive imaging for characterizing eddy-current probe with tilted coils	Yen-Lin Pan	Oral	11:45 AM 12:00 PM

**Session Information**

Session Title: Patterned Films and Elements (I)

Session Abbreviation: AC

Client Session ID: 15

<p>Session Type: Oral</p> <p>Duration: May 5, 2009 9:00 AM - May 5, 2009 12:00 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Jim Miles</p> <p>Session Location: Room 315</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607499	AC-01	Angular-dependent magnetic reversal in Co nano-ellipses	Yeyu Fang	Oral	9:00 AM 9:15 AM
2	608369	AC-02	Magnetic single-domain-transformation/spin-structure-evolution under an electric field in a patterned magnetoelectric nanostructure	Tien-Kan Chung	Oral	9:15 AM 9:30 AM
3	608533	AC-03	Magnetic force microscopy study on domain structures in patterned (CoFe/Pt) <sub>n</sub> micromagnets with perpendicular anisotropy	Zhu Diao	Poster	9:30 AM 9:45 AM
4	607839	AC-04	Nonlinear vortex gyrotropic dynamics in ferromagnetic dots	Konstantin Guslienko	Oral	9:45 AM 10:00 AM
5	605421	AC-05	Fabrication of 5 – 300 nm magnetic multilayer patterns and sensors with high quality profiles	Baoyu Zong	Oral	10:00 AM 10:15 AM
6	607093	AC-06	Thermally induced switching field distribution of a single CoPt dot in a large array	Michael Delalande	Oral	10:15 AM 10:30 AM
7	606635	AC-07	Planarization of bit patterned surface with gas cluster ion beams	Noriaki Toyoda	Oral	10:30 AM 10:45 AM
8	607598	AC-08	Reduction of in-plane uniaxial magnetic anisotropy in patterned single crystal Fe dot arrays	Daxin Niu	Oral	10:45 AM 11:00 AM
9	605934	AC-09	New routes for nanopatterning magnetic materials	Agustina Asenjo	Oral	11:00 AM 11:15 AM
10	605432	AC-10	Control of the magnetic vortex chirality and polarity in triangular nanodots	Oksana Chubykalo-Fesenko	Oral	11:15 AM 11:30 AM
11	605947	AC-11	Complex domain patterns in dot and antidot arrays of soft magnetic materials with different anisotropy values	Marco Coisson	Oral	11:30 AM 11:45 AM
12	608561	AC-12	Precise probing the spin excitations of vortex-state magnetic dots applying in-plane bias field	Konstantin Guslienko	Oral	11:45 AM 12:00 PM

Session Information
<p>Session Title: Advanced Recording Media: Perpendicular and Beyond</p> <p>Session Abbreviation: AD</p> <p>Client Session ID: 20</p> <p>Session Type: Oral</p> <p>Duration: May 5, 2009 9:00 AM - May 5, 2009 12:00 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Yingguo Peng</p>

Session Location: Room 306

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605658	AD-01	Effects of initial grain layer on the performance of CoCrPt-SiO <sub>2</sub> perpendicular media with capping layer	Ryoichi Mukai	Oral	9:00 AM 9:15 AM
2	600485	AD-02	Effect of cross-track medium noise on high track-density recording	Sarbanoo Das	No Preference	9:15 AM 9:30 AM
3	606557	AD-03	Noise power in perpendicular magnetic recording	H. Neal Bertram	Oral	9:30 AM 9:45 AM
4	606600	AD-04	Areal density potential for non-Stoner-Wohlfarth media	Bogdan Valcu	Oral	9:45 AM 10:00 AM
5	608469	AD-05	Stacking faults in smaller grain size perpendicular magnetic recording media	Hua Yuan	Oral	10:00 AM 10:15 AM
6	607626	AD-06	Novel MnRu-based intermediate layer for CoPtCr-SiO <sub>2</sub> perpendicular media	Jung-Wei Liao	Oral	10:15 AM 10:30 AM
7	607520	AD-07	Influence of dual synthetic nucleation (SN) layers in perpendicular recording media	S.N. Piramanayagam	Oral	10:30 AM 10:45 AM
8	607275	AD-08	Si/NiFe/FeCoB crystalline SUL to reduce Ru intermediate layer thickness for CoPtCr-SiO <sub>2</sub> granular perpendicular magnetic recording media	Shigeki Nakagawa	Oral	10:45 AM 11:00 AM
9	607677	AD-09	In-plane structure control of CoPt-TiO <sub>2</sub> recording layer by using nanoparticle-like Ta orientation control layer.	Kazuhiko Shintaku	No Preference	11:00 AM 11:15 AM
10	606850	AD-10	Micromagnetics of hard axis loops for composite media	Bogdan Valcu	Oral	11:15 AM 11:30 AM
11	599855	AD-11	Characterization of magnetic properties and magnetic reversal process on magnetically decoupled Sm-Co perpendicular magnetic thin films consisting of crystal phase and amorphous phase	Isao Koizumi	Oral	11:30 AM 11:45 AM
12	606249	AD-12	FePtCu ordered alloy films with (001) orientation fabricated from Cu/Pt/Fe tri-layers	Shigeki Nakagawa	Oral	11:45 AM 12:00 PM

**Session Information**

Session Title: MgO Magnetic Tunnel Junctions

Session Abbreviation: AE

Client Session ID: 25

Session Type: Oral

Duration: May 5, 2009 9:00 AM -  
May 5, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Daniele Mauri

Session Location: Room 307

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606365	AE-01	High magnetoresistance tunnel junctions with Mg(B)O barriers and NiFeB free electrodes	John Read	Oral	9:00 AM 9:15 AM
2	607723	AE-02	TEM investigation of CoFeB / MgO / CoFeB pseudo spin valves annealed at different temperatures	Sankar Karthik	Oral	9:15 AM 9:30 AM
3	607594	AE-03	Tunneling spectroscopy of CoFeB/MgO /CoFeB MTJs with ultrahigh TMR ratio	Huadong Gan	Oral	9:30 AM 9:45 AM
4	604716	AE-04	Effect of buffer layer texture on the crystallization of CoFeB and on the tunnel magnetoresistance in magnetic tunnel junctions	Jiangwei Cao	No Preference	9:45 AM 10:00 AM
5	608054	AE-05	MgO based epitaxial magnetic tunnel junctions using Fe <sub>1-x</sub> V <sub>x</sub> electrodes	Frédéric Bonell	Oral	10:00 AM 10:30 AM
6	607455	AE-06	Improvement of magnetic transport properties in bottom-type pinning MgO magnetic tunnel junctions with NiFeSiB/CoFeB hybrid free layer	Ji Ung Cho	Oral	10:30 AM 10:45 AM
7	605271	AE-07	Insertion of preferred grain growth promotion seed layer in the magnetic tunnel junction with MgO tunnel barrier prepared by oxidation method for MgO-based magnetic tunnel junction	Young-suk Choi	Oral	10:45 AM 11:00 AM
8	606079	AE-08	Dielectric breakdown in MgO based magnetic tunnel junctions	Guenter Reiss	Oral	11:00 AM 11:15 AM
9	606526	AE-09	Interface short range order in CoFeB/MgO/ CoFeB magnetic tunnel junctions	Markus Muenzenberg	Oral	11:15 AM 11:30 AM
10	605308	AE-10	Antiferromagnetic coupling in sputtered MgO tunnel junctions with perpendicular magnetic anisotropy	Lavinia Nistor	Oral	11:30 AM 11:45 AM
11	607313	AE-11	The effect of interfacial Fe layers inserted into FePt/MgO/FePt (001) magnetic tunnel junctions: A first-principles study	Masafumi Shirai	Oral	11:45 AM 12:00 PM

### Session Information

Session Title: Magnetic Thin Films/Multilayers and DMS films

Session Abbreviation: AF

Client Session ID: 30

Session Type: Oral

Duration: May 5, 2009 9:00 AM -  
May 5, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Jing Wu

Session Location: Room 308

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607853	AF-01	Chirality reversal for planar interface domain walls in exchange-spring hard/soft magnetic bilayers	Stephane Mangin	Oral	9:00 AM 9:15 AM
2	608538	AF-02	Epitaxial Co/Ni (111) multilayer films studied by ferromagnetic resonance	Jean-Marc Beaujour	Oral	9:15 AM 9:30 AM

3	606205	AF-03	Magnetic properties of $(\text{Ni}_{83}\text{Fe}_{17})_{1-x}\text{-Gd}_x$ thin films with diluted Gd doping	Ya Zhai	Oral	9:30 AM 9:45 AM
4	608268	AF-04	Magnetic anisotropy in CoFe films induced by obliquely sputtered Ru underlayers	Zhihong Lu	Oral	9:45 AM 10:00 AM
5	608579	AF-05	Anomalous Hall effect measurement of novel magnetic multilayers	Seng Kai Wong	No Preference	10:00 AM 10:15 AM
6	607863	AF-06	Preisach model for CoPt based hard/soft bilayers	Alexandru Stancu	Oral	10:15 AM 10:30 AM
7	607300	AF-07	Magnetic properties and phase transition kinetics of $\text{Fe}_{50}(\text{Rh}_{1-x}\text{Pt}_x)_{50}$ thin films	Wei Lu	Oral	10:30 AM 10:45 AM
8	608433	AF-08	Magnetic interactions and effects of N codoping in Mn doped ZnO	Johan Persson	Oral	10:45 AM 11:00 AM
9	604786	AF-09	Secondary phase formation in ZnCoO and ZnMnO and its influence on the magnetic properties	Gillian Kiliani	Oral	11:00 AM 11:15 AM
10	608605	AF-10	Anomalous Hall effect and transport mechanism in Co doped ZnO thin films	Cheng-Pang Lin	Oral	11:15 AM 11:30 AM
11	608383	AF-11	Chemical instability in Co doped ZnO	Ronny Knut	Oral	11:30 AM 11:45 AM
12	606765	AF-12	Pulsed current controlled thermally assisted magnetization reversal in $(\text{Ga,Mn})\text{As}$ magnetic tunneling junctions	Zhen Li	Oral	11:45 AM 12:00 PM

### Session Information

Session Title: Crystalline, Nanocrystalline, and Amorphous Materials (I)

Session Abbreviation: AG

Client Session ID: 35

Session Type: Oral

Duration: May 5, 2009 9:00 AM -  
May 5, 2009 11:30 AM

Session Number Prefix:

Session Hosts: Session Chair: Mike Gibbs

Session Location: Room 309-310

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605274	AG-01	$(\text{Fe}_{72}\text{Mo}_{4}\text{B}_{24})_{94}\text{Dy}_6$ amorphous alloy with large magnetostriction and high glass forming ability	Mi Yan	Oral	9:00 AM 9:15 AM
2	607353	AG-02	New excellent soft magnetic $\text{FeSiBPCu}$ nanocrystalline alloys with high $B_s$ of 1.9T from nanohetero-amorphous phase	Akihiro Makino	Oral	9:15 AM 9:30 AM
3	607631	AG-03	The effect of garnet nanometer grains on the terahertz wave absorption	Qinghui Yang	Oral	9:30 AM 9:45 AM
4	608153	AG-04	Spinodal decomposition in $\text{Fe-(Au,Cu)-B}$ glassy alloys with enhanced soft magnetic properties	Nicoleta Lupu	Oral	9:45 AM 10:00 AM
5	606991	AG-05	Positive and negative magnetoresistance of $\alpha\text{-C}$ : $\text{Fe/Si}$ heterojunctions	Lihua Wu	Oral	10:00 AM 10:15 AM
6	604973	AG-06	Magnitude dispersion of the uniaxial magnetic anisotropy in thin amorphous films	Vincent Dubuget	Oral	10:15 AM 10:30 AM

7	606481	AG-07	Effect of transverse magnetic field on domain wall propagation in Fe-rich glass-coated amorphous wires	Arcady Zhukov	Oral	10:30 AM 10:45 AM
8	605810	AG-08	Tailoring the domain wall dynamics in thin magnetic wires.	Rastislav Varga	Oral	10:45 AM 11:00 AM
9	603427	AG-09	Adjustment of domain nucleation and domain wall motion in magnetic amorphous microwires	Alexander Chizhik	Oral	11:00 AM 11:15 AM
10	607518	AG-10	Development and characterization of NiFe/insulation/Cu composite wires for magnetic sensing and their giant magneto-impedance effect	Ning Ning	Oral	11:15 AM 11:30 AM

### Session Information

Session Title: Magnetoelastic Applications, Ferromagnetic Shape Memory Alloys, and Other Magnetoelastic Materials  
 Session Abbreviation: AP  
 Client Session ID: 40  
 Session Type: Poster  
 Duration: May 5, 2009 8:00 AM -  
 May 5, 2009 12:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Thomas A Lograsso  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607762	AP-01	Magnetostrictive magnetic tunnel junctions as pressure gauges	Dirk Meyners	Oral	8:00 AM 8:00 AM
2	606764	AP-02	Capacitive load effects on a magnetostrictive fully coupled energy harvesting device	Ciro Visone	Poster	8:00 AM 8:00 AM
3	607398	AP-03	A novel micropower generator by vibration-driven MsM materials	Shi Yuan Tong	Poster	8:00 AM 8:00 AM
4	606473	AP-04	In-situ studies of the martensitic transformation in epitaxial Ni-Mn-Ga films constrained by the substrate	Jörg Buschbeck	Oral	8:00 AM 8:00 AM
5	606505	AP-05	Stray field induced actuation mode of freestanding magnetic shape memory films	Sebastian Faehler	Oral	8:00 AM 8:00 AM
6	608075	AP-06	Magnetic shape memory effect in foils, fibers, and thin films - comparison with the bulk single crystal	Oleg Heczko	Oral	8:00 AM 8:00 AM
7	607641	AP-07	Magnetic field induced phase transformation in Ni-Mn-In-Co particles for composites applications	Jian Liu	Oral	8:00 AM 8:00 AM
8	606285	AP-08	Magnetostriction and magnetization of common high strength steels	James Cuseo	Poster	8:00 AM 8:00 AM
9	606835	AP-09	Evaluation of electromagnetic radiative noise magnetostrictively coupled to elastic vibrations in steel pipes	Martin Sablik	Poster	8:00 AM 8:00 AM
10	605269	AP-10	Enhanced magnetostriction in a pre-deformed Mn50Fe50 alloy	TianYu Ma	Oral	8:00 AM 8:00 AM

11	606241	AP-11	Magnetoelastic properties of $\text{CoAl}_x\text{Fe}_{2-x}\text{O}_4$ and improved strain sensitivity in $\text{CoFe}_2\text{O}_4$	Ikenna Nlebedim	Oral	8:00 AM 8:00 AM
12	601256	AP-12	Finite element modeling of the deformation of a thin magnetoelastic film compared to a membrane model	Matthew Barham	No Preference	8:00 AM 8:00 AM
13	604945	AP-13	Magnetostriction of rapidly quenched Fe-X (X = Al, Ga) ribbons as function of the quenching rate	Roland Groessinger	Oral	8:00 AM 8:00 AM
14	604767	AP-14	Abnormal (110) grain growth and magnetostriction in recrystallized galfenol with dispersed niobium carbide	Suok-Min Na	Oral	8:00 AM 8:00 AM

### Session Information

Session Title: Spin Transport and Magnetoresistance (I)

Session Abbreviation: AQ

Client Session ID: 45

Session Type: Poster

Duration: May 5, 2009 8:00 AM -  
May 5, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Burkard Hillebrands

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608060	AQ-01	Thermal magnetic noise from synthetic antiferromagnets in magnetoresistive heads	Lei Wang	Poster	8:00 AM 8:00 AM
2	608637	AQ-02	FMR peak width of ferromagnetically/antiferromagnetically coupled Co/Ru superlattice thin films	Norihito Fujita	Poster	8:00 AM 8:00 AM
3	606646	AQ-03	Electronic structure and spin-dependent transport in ferromagnetic silicide and Heusler alloy/ semiconductor junctions	Hiroyoshi Itoh	No Preference	8:00 AM 8:00 AM
4	608397	AQ-04	Magnetotransport and trapping of magnetic domain walls in spin valves with nanoconstrictions	Mohamed Abid	Poster	8:00 AM 8:00 AM
5	607302	AQ-05	Pt/Co-alloy spin valve with perpendicular anisotropy	Feng Gen	Poster	8:00 AM 8:00 AM
6	606739	AQ-06	Exchange bias and giant magnetoresistance in top pinned CoFeB/IrMn current in plane spin valves	Ciaran Fowley	Poster	8:00 AM 8:00 AM
7	607212	AQ-07	Magnetoresistance study and interlayer coupling of CoFe/Os/CoFe and Fe/Os/Fe thin films	Shih-Yuan Chen	Poster	8:00 AM 8:00 AM
8	601519	AQ-08	Electrical injection and detection of spin-polarized carriers in silicon in a vertical transport geometry.	Muhammad Husain	Poster	8:00 AM 8:00 AM
9	605224	AQ-09	Determination of spin-orbit interaction parameter in InAs-inserted heterostructure	Tae Young Lee	Poster	8:00 AM 8:00 AM
10	607147	AQ-10	Fabrication and characterization of MBE grown Fe/GaAs(100)/Fe vertical devices	Johnny Wong	Poster	8:00 AM 8:00 AM
11	607277	AQ-11	Spin-polarized transport based on double-Schottky barriers	Xiao-Li Tang	Poster	8:00 AM 8:00 AM



Session Information
<p>Session Title: Thin Films            Session Abbreviation: AR            Client Session ID: 50            Session Type: Poster            Duration: May 5, 2009 8:00 AM -            May 5, 2009 12:00 PM            Session Number Prefix:            Session Hosts: Session Chair: Frederic Bonell            Session Location: Exhibit Hall B            Display individual abstract times in IP? yes</p>

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606528	AR-01	Stray field-induced dynamics of coupled magnetic vortices	André Drews	Poster	8:00 AM 8:00 AM
2	607552	AR-02	Voltage induced magnetic anisotropy change in a Fe (001) alloy layers with perpendicular magnetization	Yoichi Shiota	Poster	8:00 AM 8:00 AM
3	606613	AR-03	Ferromagnetic behaviour at RT of a 6 Å thick Co layer deposited on Si/SiO <sub>2</sub>	Farid Fettar	Poster	8:00 AM 8:00 AM
4	606954	AR-04	Spin reorientation transition upon hydrogen exposure in bilayer cobalt films on Ru(0001)	Benito Santos	Oral	8:00 AM 8:00 AM
5	607135	AR-05	Structural and magnetic studies on epitaxial ultrathin Fe <sub>3</sub> O <sub>4</sub> /GaN(0001) hybrids	Johnny Wong	Poster	8:00 AM 8:00 AM
6	598577	AR-06	Effect of temperature on the ferromagnetic resonance linewidth of epitaxial Fe thin films	Alka Kuanr	Poster	8:00 AM 8:00 AM
7	605331	AR-07	Spin dynamics of polycrystalline Ni <sub>45</sub> Fe <sub>55</sub> films on Si substrates.	Jeffrey Godsell	Poster	8:00 AM 8:00 AM
8	606101	AR-08	Effects of oxygen exposure on ultrathin Co/Si(111) films	Js Tsay	Oral	8:00 AM 8:00 AM
9	608503	AR-09	Consideration on Interlayer Coupling in Co <sub>0.9</sub> Fe <sub>0.1</sub> /Cu /Co <sub>0.9</sub> Fe <sub>0.1</sub> Spin-Valves with Fe <sub>0.7</sub> Co <sub>0.3</sub> (Cr)- NOL	Kazuya Sawada	Poster	8:00 AM 8:00 AM
10	606463	AR-10	Magnetic properties of ultrathin TbFeCo magnetic films with perpendicular magnetic anisotropy	Ching-Ming Lee	Poster	8:00 AM 8:00 AM
11	608377	AR-11	Study of Al/DyFeCo/Al multilayers using scanning transmission electromicrope	Wen Jauh Chen	No Preference	8:00 AM 8:00 AM
12	606966	AR-12	Permittivity modulation of Ta <sub>2</sub> O <sub>5</sub> /Co/ Ta <sub>2</sub> O <sub>5</sub> trilayer films	Yi Ding	Poster	8:00 AM 8:00 AM
13	607605	AR-13	Effects of argon ion bombardment on the structure and magnetic properties of ultra thin Fe films	Gopalakrishnan Chandrashekar	Oral	8:00 AM 8:00 AM

Session Information
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<p>Session Title: Micromagnetics  Session Abbreviation: AS  Client Session ID: 55  Session Type: Poster  Duration: May 5, 2009 8:00 AM -  May 5, 2009 12:00 PM  Session Number Prefix:  Session Hosts: Session Chair: Boris Livshitz  Session Chair: Ching-Ray Chang  Session Location: Exhibit Hall B  Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	602614	AS-01	On the use of the Sherman-Morrison-Woodbury formula for coupling external circuits to finite element simulation of transient magnetics	Daniel White	No Preference	8:00 AM 8:00 AM
2	605109	AS-02	Simulations of magnetic excitations in small dots supporting weak and strong stripe domains	Yacine Talbi	Poster	8:00 AM 8:00 AM
3	606428	AS-03	Equilibrium shapes of ferrofluid under magnetic fields using continuum shape sensitivity and level set method	Young Sun Kim	Poster	8:00 AM 8:00 AM
4	606450	AS-04	Magnetic ordering of magnets with random anisotropy probed by an ac magnetic field: a novel Monte Carlo method	Ha Nguyen	Poster	8:00 AM 8:00 AM
5	606770	AS-05	Full micromagnetic numerical simulations of thermal fluctuations	Carlo Ragusa	Poster	8:00 AM 8:00 AM
6	606774	AS-06	Local control of ultrafast dynamics of magnetic nanoparticles	Alexander Sukhov	Poster	8:00 AM 8:00 AM
7	606862	AS-07	Renormalization of Landau-Lifshitz equation and its applications.	Kirill Rivkin	Poster	8:00 AM 8:00 AM
8	607073	AS-08	Excitation of non-propagative modes in a confined point-contact	Giovanni Finocchio	Poster	8:00 AM 8:00 AM
9	607352	AS-09	Parallelizing a micromagnetic program for use on multi-processor shared memory computers	Michael Donahue	Poster	8:00 AM 8:00 AM
10	607382	AS-10	Fast micromagnetic simulation by a graphic processor unit	Tomonori Sato	Poster	8:00 AM 8:00 AM
11	607457	AS-11	Micromagnetic study of coupled vortices motion in ferromagnetic/non-magnetic /ferromagnetic trilayer	Su-Hyeong Jun	Poster	8:00 AM 8:00 AM
12	607496	AS-12	Domain wall propagation in wavy ferromagnetic nanowire	Hong-Guang Piao	Poster	8:00 AM 8:00 AM
13	608021	AS-13	Dynamic characterizations of magneto-rheological elastomers in shear mode	Jeong-Hoi Koo	Poster	8:00 AM 8:00 AM
14	608064	AS-14	Numerical investigations on the excitation of spin-wave bullet modes within a micromagnetic framework	Giancarlo Consolo	Poster	8:00 AM 8:00 AM
15	608569	AS-15	Refractive index and Snell Law for dipole-exchange spin waves in a confined planar structure	Dae-Eun Jeong	Poster	8:00 AM 8:00 AM

16	606430	AS-16	Analysis of noise spectral density for phenomenological models of hysteresis	Petru Andrei	Poster	8:00 AM 8:00 AM
17	607550	AS-17	Dynamic neural network model of magnetic hysteresis	Marinel Temneanu	Poster	8:00 AM 8:00 AM
18	608175	AS-18	Random anisotropy ising model for BCC and HCP structures with magnetostatic and exchange interactions	Cristian Enachescu	Poster	8:00 AM 8:00 AM

### Session Information

Session Title: Microwave Magnetic Materials and Devices  
 Session Abbreviation: AT  
 Client Session ID: 60  
 Session Type: Poster  
 Duration: May 5, 2009 8:00 AM -  
 May 5, 2009 12:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Alexander A. Serga  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606049	AT-01	Development of electromagnetic wave shielding textile by electroless Ni-based alloy plating	Makoto Sonehara	Poster	8:00 AM 8:00 AM
2	606754	AT-02	Self-generation of dark envelope solitons in active feedback rings based on ferrite-ferroelectric layered structures	Alexey Ustinov	Poster	8:00 AM 8:00 AM
3	606853	AT-03	Comparisons of Bi <sub>2</sub> O <sub>3</sub> and V <sub>2</sub> O <sub>5</sub> additives on the properties of lithium ferrites	Hua Su	Poster	8:00 AM 8:00 AM
4	607756	AT-04	Synthesis of metamaterial ferrites using double-square loops	Ruey-Bin Yang	Poster	8:00 AM 8:00 AM
5	606544	AT-05	Antenna designs for single-wavelength spin wave propagation	Robert McMichael	Poster	8:00 AM 8:00 AM
6	608087	AT-06	Static and dynamic magnetic properties of antidot arrays with different thickness	Leszek Malkinski	Poster	8:00 AM 8:00 AM
7	607764	AT-07	The influence of geometric parameters distribution on ferromagnetic resonance of nanowires systems	Ioan Dumitru	Poster	8:00 AM 8:00 AM
8	606005	AT-08	High performance compact microstrip phase shifter at x-band using yttrium iron garnet	Ilancheliyan Viswanathan	Poster	8:00 AM 8:00 AM
9	606286	AT-09	Low bias field hexagonal $\gamma$ -type ferrite phase shifters at Ku band	Anton Geiler	Poster	8:00 AM 8:00 AM
10	606589	AT-10	Analysis of electromagnetic fields generated by a spin-torque oscillator	Haiwen Xi	Poster	8:00 AM 8:00 AM
11	606581	AT-11	Detection of continuous spinwaves along magnetic nanostrips using magnetoresistive devices	Haiwen Xi	Poster	8:00 AM 8:00 AM

<b>Session Information</b>						
Session Title: Shielding, Levitation, and Propulsion						
Session Abbreviation: AU						
Client Session ID: 65						
Session Type: Poster						
Duration: May 5, 2009 8:00 AM - May 5, 2009 12:00 PM						
Session Number Prefix:						
Session Hosts: Session Chair: Ichiro Sasada						
Session Location: Exhibit Hall B						
Display individual abstract times in IP? yes						

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605330	AU-01	3d analytical field calculation of pyramidal and other polyhedral shaped permanent magnets for a gravity compensator	Jeroen L.G. Janssen	Oral	8:00 AM 8:00 AM
2	606343	AU-02	A novel rail shape to decouple the orthogonal magnetic circuits in the magnetically levitated vehicle	Seung-Chan Park	Poster	8:00 AM 8:00 AM
3	606923	AU-03	Experimental study on stabilizing range extension of diamagnetic levitation under modulated magnetic field	Tsz Chun ,Samuel Chow	Oral	8:00 AM 8:00 AM
4	607335	AU-04	Design considerations of EM-PM hybrid levitation and propulsion device for magnetically levitated vehicles	Han-Wook Cho	Poster	8:00 AM 8:00 AM
5	605416	AU-05	Optimal design of open-type magnetically shielded room combined with square cylinders made of magnetic and conductive materials for MRI	Shigetaka Hiroato	Poster	8:00 AM 8:00 AM
6	606931	AU-06	Shielding performance of open-type magnetic shielding box structure	Takeshi Saito	No Preference	8:00 AM 8:00 AM
7	607381	AU-07	Magnetic noise due to sound of footsteps on wooden free-access floor outside a magnetically-shielded room for biomagnetic and non-destructive measurements	Keita Yamazaki	No Preference	8:00 AM 8:00 AM
8	607507	AU-08	Shielding effect of double layered open-type magnetic shield structure	Hiroyuki Hirano	Poster	8:00 AM 8:00 AM

<b>Session Information</b>						
Session Title: Magnetic Nanowires, Clusters, and Nanoparticles (IV)						
Session Abbreviation: AV						
Client Session ID: 70						
Session Type: Poster						
Duration: May 5, 2009 8:00 AM - May 5, 2009 12:00 PM						
Session Number Prefix:						
Session Hosts: Session Chair: Raja Swaminathan						
Session Location: Exhibit Hall B						
Display individual abstract times in IP? yes						

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607960	AV-01	Exchange bias in Ni/NiO core-shell nanowires	Yen-Chun Huang	Poster	8:00 AM 8:00 AM
2	607333	AV-02	Origin of glass-like relaxation peaks in Fe <sub>3</sub> O <sub>4</sub> -based ferrofluids	Marienette Morales	Poster	8:00 AM 8:00 AM
3	607005	AV-03	Fabrication and magnetization reversal processes for Co/Cu multilayer nanowires.	Rehana Sharif	Poster	8:00 AM 8:00 AM
4	608519	AV-04	Structural and magnetic properties of single-crystalline Co-doped barium titanate nanoparticle	Hongxue Liu	Poster	8:00 AM 8:00 AM
5	607714	AV-05	Dimensionality control and characterization of magnetic nanostructures for Fe on nano-patterned Au(111)	Wen-Chin Lin	Poster	8:00 AM 8:00 AM
6	608513	AV-06	Synthesis and magnetic properties of multifunctional Fe <sub>3</sub> O <sub>4</sub> -AuPt core-shell nanoparticles	Ah-Young Song	Poster	8:00 AM 8:00 AM
7	607485	AV-07	Preparation, properties and bio-functionalization of multifunctional Ni-Au core-shell nanowires	Moon kyu Cho	No Preference	8:00 AM 8:00 AM
8	608382	AV-08	Magnetic behavior of chemically-synthesized FeRh-FePt nanostructures	Zhiyong Jia	Oral	8:00 AM 8:00 AM
9	601358	AV-09	Synthesis and characterization of ferromagnetic nanoparticles	J. Ping Liu	Oral	8:00 AM 8:00 AM
10	606412	AV-10	Effect of magnetic nanoparticle on carbonyl iron based magnetorheological suspension	Hyoung Jin Choi	Poster	8:00 AM 8:00 AM
11	607617	AV-11	The influence of the particles size and size distribution on the magnetorheological fluids properties	Horia Chiriac	No Preference	8:00 AM 8:00 AM
12	607130	AV-12	Advanced strategies for real-time control of vehicle suspensions based on magnetorheological fluids	Domenico Alessandro Lampasi	No Preference	8:00 AM 8:00 AM
13	607831	AV-13	Development of magnetic separation system with micro-scaled magnetic column	SeokBeom Kim	Poster	8:00 AM 8:00 AM

### Session Information

Session Title: Symposium on Electric Field Control on Magnetism  
 Session Abbreviation: BA  
 Client Session ID: 75  
 Session Type: Oral  
 Duration: May 5, 2009 2:00 PM -  
 May 5, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Kai Liu  
 Session Location: Room 311-313  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	617829	BA-01	Electrical field control of ferromagnets using multiferroics	R Ramesh	Invited	2:00 PM 2:30 PM

2	616899	BA-02	Magnetization switching without charge or spin currents	Joachim Stohr	Invited	2:30 PM 3:00 PM
3	616535	BA-03	Electric field manipulation of magnetic anisotropy in ferromagnetic semiconductors	Hideo Ohno	Invited	3:00 PM 3:30 PM
4	616973	BA-04	Novel FeGaB based microwave multiferroic heterostructures	Nian Sun	Invited	3:30 PM 4:00 PM
5	617725	BA-05	Morphotropic phase boundary in rare-earth doped BiFeO <sub>3</sub>	Ichiro Takeuchi	Invited	4:00 PM 4:30 PM
6	618871	BA-06	Electric-field charge accumulation and induced-superconductivity in an insulator	Kazunori Ueno	Invited	4:30 PM 5:00 PM

### Session Information

Session Title: Fast Switching of Films and Nanostructures

Session Abbreviation: BB

Client Session ID: 80

Session Type: Oral

Duration: May 5, 2009 2:00 PM -  
May 5, 2009 4:30 PM

Session Number Prefix:

Session Hosts: Session Chair: Mathias Klaeui

Session Location: Room 314

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606813	BB-01	Detecting single nanomagnet dynamics in varying magnetostatic environments	Zhigang Liu	Oral	2:00 PM 2:15 PM
2	608337	BB-02	Non-linear dynamics of magnetic vortices	André Drews	Oral	2:15 PM 2:30 PM
3	615212	BB-03	Current induced spin-wave emission from ferromagnetic nanostructures	Burkard Hillebrands	Invited	2:30 PM 3:00 PM
4	616065	BB-04	Static and dynamic magnetization processes in magnetic property patterned thin films	Jeffrey McCord	Invited	3:00 PM 3:30 PM
5	606234	BB-05	Coherent suppression of magnetization precession in presence of spin waves in a Ni <sub>81</sub> Fe <sub>19</sub> microwire	Y. Fukuma	Oral	3:30 PM 3:45 PM
6	607016	BB-06	Bubble dynamics and switching in magnetic nanoelements	Christoforos Moutafis	Oral	3:45 PM 4:00 PM
7	608245	BB-07	Magnetization dynamics in exchange-biased Ni <sub>80</sub> Fe <sub>20</sub> /Ir <sub>80</sub> Mn <sub>20</sub> vortex structures	Byoung Choi	Oral	4:00 PM 4:15 PM
8	606527	BB-08	Energy equilibration processes of electrons, magnons, and phonons at the femtosecond time scale	Jakob Walowski	Oral	4:15 PM 4:30 PM

### Session Information

Session Title: Patterned Media (I)

Session Abbreviation: BC

Client Session ID: 85

Session Type: Oral

Duration: May 5, 2009 2:00 PM - May 5, 2009 5:00 PM Session Number Prefix: Session Hosts: Session Chair: Manfred Albrecht Session Location: Room 315 Display individual abstract times in IP? yes
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	615767	BC-01	Tuning the magnetic properties of bit patterned media fabricated by blanket deposition of perpendicular anisotropy multilayers onto pre-patterned substrates	Olav Hellwig	Invited	2:00 PM 2:30 PM
2	608686	BC-02	Capped bit patterned media for high-density magnetic recording	Vitaliy Lomakin	Oral	2:30 PM 2:45 PM
3	606125	BC-03	Balancing inter-layer dipolar interactions by RKKY coupling in multilevel magnetic nanostructures with out-of-plane anisotropy	Vincent Baltz	Oral	2:45 PM 3:00 PM
4	605426	BC-04	Tailoring particle arrays by reactive ion etching: a method to realize percolated media	Manfred Albrecht	Oral	3:00 PM 3:15 PM
5	606534	BC-05	Magnetic properties of 820 & 630 Gbit/in <sup>2</sup> patterned arrays produced by extreme ultraviolet interference lithography	Tom Thomson	Oral	3:15 PM 3:30 PM
6	608487	BC-06	Microwave assisted magnetic reversal and a novel recording system	Shaojing Li	Oral	3:30 PM 3:45 PM
7	607155	BC-07	Exploring the limits of RIE-based pattern transfer using self-assembled nanoparticle arrays as etch masks	Chip Hogg	Oral	3:45 PM 4:00 PM
8	607373	BC-08	Single-domain island reversal behavior and switching field distribution of bit patterned media	Tianli Huang	Oral	4:00 PM 4:15 PM
9	607205	BC-09	Self-assembled pattern multiplication for high-density patterned media templates	Ricardo Ruiz	Oral	4:15 PM 4:30 PM
10	597300	BC-10	Semi-analytical approach for analysis of BER in conventional and staggered bit patterned media	Boris Livshitz	Oral	4:30 PM 4:45 PM
11	598901	BC-11	MFM study on 60 nm track-pitch discrete track media fabricated by nanoimprinting	Duhyun Lee	Oral	4:45 PM 5:00 PM

<b>Session Information</b> Session Title: Domain Wall Memory and Logic Session Abbreviation: BD Client Session ID: 90 Session Type: Oral Duration: May 5, 2009 2:00 PM - May 5, 2009 5:00 PM Session Number Prefix: Session Hosts: Session Chair: Jing Shi Session Location: Room 306 Display individual abstract times in IP? yes
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608053	BD-01	Very effective domain wall excitation due to spin currents perpendicular to the plane	Alexey Khvalkovskiy	Oral	2:00 PM 2:15 PM
2	607702	BD-02	Probing the pinning potential created by pinning sites for domain walls in GMR nanostrips using transverse fields	Sascha Glathe	Oral	2:15 PM 2:30 PM
3	607982	BD-03	Magnetic domain wall shift register with electrical input	Liam O'Brien	Oral	2:30 PM 3:00 PM
4	605070	BD-04	Current-induced domain-wall motion in [CoFe/Pt] <sub>5</sub> nanowire with perpendicular magnetic anisotropy	Kab-Jin Kim	Oral	3:00 PM 3:15 PM
5	605040	BD-05	Evaluation of scalability for current-driven domain wall motion in a Co/Ni multi-layer strip for memory applications	Tetsuhiro Suzuki	Oral	3:15 PM 3:30 PM
6	606588	BD-06	Spin transfer torque in domain wall structures by Keldysh Green functions	Chun-Yeol You	Oral	3:30 PM 3:45 PM
7	607365	BD-07	Simulation of tunneling magnetoresistance used to detect domain-wall structure and motion in a ferromagnetic wire	Keisuke Sawada	Oral	3:45 PM 4:00 PM
8	607438	BD-08	Globally clocked magnetic logic circuits	Albrecht Jander	Oral	4:00 PM 4:15 PM
9	607107	BD-09	High speed, high stability and low power sensing amplifier for MTJ/CMOS hybrid logic circuits	Claude Chappert	Oral	4:15 PM 4:30 PM
10	605477	BD-10	A magnetic content addressable memory design with a single set of programming wires	Zhenye Jiang	Oral	4:30 PM 4:45 PM
11	607559	BD-11	A four bit magnetic domain based multiturn counter	Roland Mattheis	Oral	4:45 PM 5:00 PM

### Session Information

Session Title: Micromagnetics and Multiscale Modeling  
 Session Abbreviation: BE  
 Client Session ID: 95  
 Session Type: Oral  
 Duration: May 5, 2009 2:00 PM -  
 May 5, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Thomas Schrefl  
 Session Chair: Vitaliy Lomakin  
 Session Location: Room 307  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606516	BE-01	Spectral micromagnetic approach in the analysis of magnetization reversal processes	Massimiliano d'Aquino	Oral	2:00 PM 2:15 PM
2	608328	BE-02	Kronecker product approximation of demagnetizing tensors for micromagnetics	Alexander Goncharov	Oral	2:15 PM 2:30 PM



3	605559	BE-03	Non-uniform grid algorithm with centroid compensated interpolation for fast evaluation of magnetostatic fields	Boris Livshitz	Oral	2:30 PM 2:45 PM
4	606011	BE-04	Graphics processing unit based multi-level non-uniform grid algorithm for fast evaluation of magnetostatic fields	Shaojing Li	Oral	2:45 PM 3:00 PM
5	607766	BE-05	Comparison of numerical and analytical calculation of the attempt frequency for nanomagnets	Dieter Suess	Oral	3:00 PM 3:15 PM
6	607838	BE-06	A novel method for the micro magnetic simulation of interface coupling	Julian Dean	Oral	3:15 PM 3:30 PM
7	604382	BE-07	Magnetic friction and the role of temperature	Martin Magiera	Oral	3:30 PM 3:45 PM
8	606503	BE-08	Impact of anisotropic exchange on M-H loops: application to ECC media.	Martin Plumer	Oral	3:45 PM 4:00 PM
9	607788	BE-09	Influence of inhomogeneous current distributions on the motion of magnetic vortices	Stellan Bohlens	Oral	4:00 PM 4:15 PM
10	606969	BE-10	Proposal for a standard problem for micromagnetic simulations including spin-transfer torque	Massoud Najafi	Oral	4:15 PM 4:30 PM
11	607314	BE-11	Fast micromagnetic simulation by cell broadband engine	Tomonori Sato	Oral	4:30 PM 4:45 PM
12	607376	BE-12	Dependence of depinning ability of domain-wall on its domain configuration at the notch in magnetic nanostripes	Sheng-Huang Huang	Oral	4:45 PM 5:00 PM

### Session Information

Session Title: Ferrites (I)  
 Session Abbreviation: BF  
 Client Session ID: 100  
 Session Type: Oral  
 Duration: May 5, 2009 2:00 PM -  
 May 5, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Mohammed Afsar  
 Session Location: Room 308  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608313	BF-01	Local magnetism and structural distortions in BaIrO <sub>3</sub> induced by Sr-doping and high pressure.	Maria Laguna-Marco	Oral	2:00 PM 2:15 PM
2	608697	BF-02	Multifunctional nanofluids of bismuth ferrite	Hemalatha Jawaharlal	Oral	2:15 PM 2:30 PM
3	607935	BF-03	Imaging capabilities of bismuth iron garnet films with near zero growth-induced uniaxial anisotropy.	Sergiy Tkachuk	Oral	2:30 PM 2:45 PM
4	605623	BF-04	Photo-magnetic effects induced in ferrites with long-time memory at room temperature	Esfir Katsnelson	Oral	2:45 PM 3:00 PM

5	606347	BF-05	Thickness dependent anomalous magnetic behavior in Co-ferrite thin film	Subasa Sahoo	Oral	3:00 PM 3:15 PM
6	605729	BF-06	Loss and permeability dependence on temperature in soft ferrites.	Marco Coisson	Oral	3:15 PM 3:30 PM
7	605869	BF-07	An anomaly in ferromagnetic resonance of single crystal compound of Sr <sub>1.5</sub> Ba <sub>0.5</sub> Zn <sub>2</sub> Fe <sub>12</sub> O <sub>22</sub>	Mohammed Afsar	Oral	3:30 PM 3:45 PM
8	603146	BF-08	A novel method of evaluating frequency response of permeabilities in the c-plane and along the c-axis of Z-type hexagonal ferrite	Tomotsugu Kato	Oral	3:45 PM 4:00 PM
9	605197	BF-09	Low-loss magnetodielectric spinel-ferrite based ceramic with constant permeability and permittivity in the UHF range	Atul Thakur	Oral	4:00 PM 4:15 PM
10	606280	BF-10	Millimeter-wave transmittance and reflectance measurements on pure and diluted carbonyl iron ferrites	Konstantin Korolev	Oral	4:15 PM 4:30 PM
11	606947	BF-11	Validation of a new nonlinear model inductor with a ferrite RM-type core by means of 2D finite element analysis	R. A. Salas	Oral	4:30 PM 4:45 PM
12	605675	BF-12	Electromagnetic noise suppression of LSI using ferrite film-plated lead frame	Koichi Kondo	Oral	4:45 PM 5:00 PM

### Session Information

Session Title: Fe-Ga Materials and Applications  
 Session Abbreviation: BG  
 Client Session ID: 105  
 Session Type: Oral  
 Duration: May 5, 2009 2:00 PM -  
 May 5, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Eric M Summers  
 Session Location: Room 309-310  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	617157	BG-01	Measurement of intrinsic magnetostriction in Fe-Ga alloys	Sakura Pascarelli	Invited	2:00 PM 2:30 PM
2	606490	BG-02	Highly magnetostrictive nanoclusters in FeGa alloys	Chaitanya Mudivarthi	Oral	2:30 PM 2:45 PM
3	606317	BG-03	Determination of structural anisotropy of stress-annealed Fe-Ga	Yingzhou Du	Oral	2:45 PM 3:00 PM
4	601104	BG-04	Comparing different growth parameter sets for the fabrication of Fe-Ga thin films	Athar Javed	Oral	3:00 PM 3:15 PM
5	605436	BG-05	The effect of field annealing on highly textured polycrystalline Galfenol strips.	Jin-Hyeong Yoo	Oral	3:15 PM 3:30 PM
6	606155	BG-06	Galfenol alloying additions and the effects on uniaxial anisotropy generation	Eric Summers	Oral	3:30 PM 3:45 PM

7	605296	BG-07	Precipitation of L12 phase in magnetostrictive Fe <sub>81</sub> Ga <sub>19</sub> alloy	Mi Yan	Oral	3:45 PM 4:00 PM
8	617129	BG-08	Miniature spherical motor using magnetostrictive bimorph	Toshiyuki Ueno	Invited	4:00 PM 4:30 PM
9	607871	BG-09	Magnetoelasticity of Fe <sub>100-x</sub> Ge <sub>x</sub> (5 < x < 18) single crystals from 77 K to 300 K	Gabriela Petculescu	Oral	4:30 PM 4:45 PM
10	605351	BG-10	Magnetostriction evaluation of Fe-V polycrystalline alloys	Cristina Bormio-Nunes	Oral	4:45 PM 5:00 PM

### Session Information

Session Title: Magnetic Recording: Physics and Channel  
 Session Abbreviation: BP  
 Client Session ID: 110  
 Session Type: Poster  
 Duration: May 5, 2009 1:00 PM -  
 May 5, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Mel Gomez  
 Session Chair: Charles Krafft  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	598591	BP-01	Perpendicular anisotropy master medium in magnetic printing for writing high density servo signal	Nurul Sheeda Suhaimi	Poster	1:00 PM 1:00 PM
2	606405	BP-02	Read channel modeling and detector designs for two-dimensional magnetic recording (TDMR)	Anantha Raman Krishnan	Oral	1:00 PM 1:00 PM
3	604816	BP-03	Layered LDPC decoding over GF(q) for magnetic recording channel	Alessandro Risso	Poster	1:00 PM 1:00 PM
4	604918	BP-04	Design of multirate low pass filter to attenuate mechanical resonances in HDDs	QingWei Jia	Poster	1:00 PM 1:00 PM
5	606432	BP-05	Proximity detection for estimating fly height using frequency characteristics in perpendicular magnetic recording systems	Joohyun Lee	Poster	1:00 PM 1:00 PM
6	606938	BP-06	A novel thermal asperity suppression for perpendicular recording channels	Piya Kovintavewat	No Preference	1:00 PM 1:00 PM
7	607103	BP-07	An inter-track interference mitigation technique using partial ITI estimation from iterative processing in patterned media storage	Pornchai Supnithi	Poster	1:00 PM 1:00 PM
8	607707	BP-08	Seek and track-follow for scanning probe microscopy based data storage	Chung Choo Chung	Poster	1:00 PM 1:00 PM
9	608110	BP-09	RS plus LDPC codes for perpendicular magnetic recording	J. Cruz	Poster	1:00 PM 1:00 PM
10	608138	BP-10	Error probabilities of 1d models for TDMR	Hiroshi Kamabe	Poster	1:00 PM 1:00 PM
11	608755	BP-11	Effect of disk on ESD performance of hard disk drives with tunneling magnetoresistive (TMR) heads	Eunkyu Jang	Poster	1:00 PM 1:00 PM

12	606332	BP-12	Construction of quasi-cyclic LDPC codes and the performance on the PR4-equalized MRC channel	Xingcheng Liu	No Preference	1:00 PM 1:00 PM
13	602966	BP-13	Servo-pattern and guard-band forming in perpendicular discrete-track media by ion irradiation	Junichi Yasumori	Poster	1:00 PM 1:00 PM
14	608620	BP-14	Statistical model for transitions of magnetization distribution in perpendicular magnetic recording	ZheJie Liu	Poster	1:00 PM 1:00 PM
15	608630	BP-15	Effect of head field gradient on nonlinear transition shift in perpendicular media	Shaoping Li	Poster	1:00 PM 1:00 PM
16	606961	BP-16	Effect of ellipsoidal AC field on microwave assisted magnetic switching	Masukazu Igarashi	Oral	1:00 PM 1:00 PM
17	608243	BP-17	Stability of exchange-coupled media: Kramers-Brown method	Pieter Visscher	Oral	1:00 PM 1:00 PM
18	605187	BP-18	Simulation of magnetic cluster formation with localized exchange interaction model	Hiraku Endo	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Magnetic Tunnel Junctions

Session Abbreviation: BQ

Client Session ID: 115

Session Type: Poster

Duration: May 5, 2009 1:00 PM -  
May 5, 2009 5:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Yasushi Endo

Session Chair: Bernard Dieny

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607216	BQ-01	Structural and magnetical control of CoFeB/Ta/NiFe free layer in MgO-MTJ	Masashige Sato	Poster	1:00 PM 1:00 PM
2	605046	BQ-02	Reducing roughness of insulator barrier layer in MTJs by changing crystallographic orientation of IrMn pinning layer.	Takahiro Ibusuki	Poster	1:00 PM 1:00 PM
3	607790	BQ-03	Study on the appearance of thermal and spin-torque noise in TMR read heads	Yasushi Endo	Poster	1:00 PM 1:00 PM
4	607830	BQ-04	Consequences of interfacial Fe-O bonding and disorder in epitaxial Fe/MgO/Fe(001) magnetic tunnel junctions	Frédéric Bonell	Oral	1:00 PM 1:00 PM
5	606749	BQ-05	TEM studies of the dielectric breakdown in MgO based magnetic tunnel junctions	Andy Thomas	Oral	1:00 PM 1:00 PM
6	600458	BQ-06	Rock salt type ZnO(001)-based magnetic tunnel junctions with RA of $0.5 \Omega\mu\text{m}^2$	Kazuyuki Sunaga	Poster	1:00 PM 1:00 PM
7	604357	BQ-07	Effect of the annealing and the barrier-layer thickness on the magnetic properties in MgO-barrier-based magnetic tunnel junctions	Yao-Jen Chang	Poster	1:00 PM 1:00 PM

8	606064	BQ-08	Influence of pinholes on MgO-tunnel junction barrier parameters obtained from current-voltage characteristics	J. Ventura	Poster	1:00 PM 1:00 PM
9	606447	BQ-09	Spin-flip effects in a ferromagnetic/normal-metal island/ferromagnetic double tunnel junction system	Min Jie Ma	Poster	1:00 PM 1:00 PM
10	606452	BQ-10	The effect of etch damage on the tunneling magnetoresistance, temperature stability, and spin transfer switching of MgO magnetic tunnel junctions	Kwang-Seok Kim	Oral	1:00 PM 1:00 PM
11	606744	BQ-11	Bias dependent tunneling magnetoresistance in magnetic tunnel junctions with a nonsymmetric insulating barrier	Jiafeng Feng	Poster	1:00 PM 1:00 PM
12	607060	BQ-12	The effect of pressure and substrate heating during magnesium oxide deposition on the properties of CoFeB/MgO magnetic tunnel junctions.	Kaan Oguz	Poster	1:00 PM 1:00 PM
13	607622	BQ-13	Tunneling anisotropic magneto-resistance in an epitaxial CoFe/n-GaAs junction	Tetsuya Uemura	Poster	1:00 PM 1:00 PM
14	607768	BQ-14	Interface roughness effect of the bias voltage dependence of tunneling magnetoresistance ratio in double-barrier magnetic tunnel junction	Jang-Roh Rhee	Poster	1:00 PM 1:00 PM
15	608027	BQ-15	Reduction of critical switching current density of MgO-based magnetic tunnel junctions with a composite free layer by controlling the annealing temperature.	Wu-Chang Tsai	Poster	1:00 PM 1:00 PM
16	608145	BQ-16	Magnetic properties and spin polarization of $\text{Fe}_2\text{Cr}_{1-x}\text{M}_x\text{Si}$ (M = Ti, V) Heusler alloys	Yoichi Takeda	Poster	1:00 PM 1:00 PM
17	607384	BQ-17	Influence of frequency and dc bias on magnetoimpedance behaviors in double-MgO magnetic tunnel junctions	Chien-Tai Lin	Oral	1:00 PM 1:00 PM

### Session Information

Session Title: Films, Nanostructures, and DMS  
 Session Abbreviation: BR  
 Client Session ID: 120  
 Session Type: Poster  
 Duration: May 5, 2009 1:00 PM -  
 May 5, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Randy Kenneth Dumas  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607251	BR-01	Magnetization reversal mechanism and microstructure refinement of FePt (001) films with SiO <sub>2</sub> capping layer	Da-Hua Wei	Poster	1:00 PM 1:00 PM
2	605556	BR-02	Magnetic and transport properties of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /Nd <sub>0.6</sub> Ca <sub>0.4</sub> MnO <sub>3</sub> superlattices	Jauyn Grace Lin	Poster	1:00 PM 1:00 PM

3	605247	BR-03	Microstructure and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> thin films deposited on Si Substrate with Fe <sub>3</sub> O <sub>4</sub> underlayer	Zhiyong Zhong	Poster	1:00 PM 1:00 PM
4	607143	BR-04	The fabrication of high coercivity $\tau$ -phase Mn-Al films	Bin Ma	Poster	1:00 PM 1:00 PM
5	607227	BR-05	Theoretical and experimental investigation of dipolar interactions in coupled nanomagnets	Shikha Jain	Poster	1:00 PM 1:00 PM
6	607993	BR-06	Magnetic properties of dumbbell-shaped nanostructures formed by self assembly methods	Vivian Ng	Oral	1:00 PM 1:00 PM
7	601160	BR-07	Structure, properties and the origin of room temperature ferromagnetism in Si implanted with Mn	A. Orlov	Oral	1:00 PM 1:00 PM
8	605052	BR-08	CuO nanoparticles as a room temperature dilute magnetic giant dielectric material	Narsinga Gade	Poster	1:00 PM 1:00 PM
9	607656	BR-09	Investigation on the magnetic and transport properties of Mn-doped CuO thin films	Youwei Du	Poster	1:00 PM 1:00 PM
10	607279	BR-10	Room temperature ferromagnetism in carbon-doped nanocrystalline TiO <sub>2</sub>	Qi-Ye Wen	Poster	1:00 PM 1:00 PM
11	607508	BR-11	Negative coercivity and spin configurations in Ni/TbFeCo/Ni trilayers	Xiaoxi Liu	Oral	1:00 PM 1:00 PM

### Session Information

Session Title: Crystalline, Nanocrystalline, and Amorphous Materials (II)  
 Session Abbreviation: BS  
 Client Session ID: 125  
 Session Type: Poster  
 Duration: May 5, 2009 1:00 PM -  
 May 5, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Arcady Zhukov  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	604991	BS-01	Ferromagnetic resonance linewidth in stressed CoFeSiB microwires	Kelly Sossmeier	Poster	1:00 PM 1:00 PM
2	600762	BS-02	Kerr microscopy study of magnetic domain structure changes in amorphous microwires	Alexander Chizhik	Poster	1:00 PM 1:00 PM
3	606972	BS-03	Complex surface magnetic structure and GMI response in amorphous microwires	Horia Chiriac	Poster	1:00 PM 1:00 PM
4	606953	BS-04	Domain wall propagation in nanocrystalline glass-coated microwires	Horia Chiriac	Poster	1:00 PM 1:00 PM
5	605293	BS-05	Effects of thermal oxidation on the high-frequency magnetic properties of Fe-based nanocrystalline alloy powder cores	Yoon Bae Kim	Poster	1:00 PM 1:00 PM
6	607678	BS-06	Statistical properties of Barkhausen noise in FeSiB films	Felipe Bohn	Poster	1:00 PM 1:00 PM

7	607329	BS-07	CoFeSiO/SiO <sub>2</sub> multilayer granular film with very narrow ferromagnetic resonant linewidth	Kenji Ikeda	Poster	1:00 PM 1:00 PM
8	605768	BS-08	Magnetic properties of Fe-based amorphous powder cores with high magnetic flux density	Isamu Otsuka	Poster	1:00 PM 1:00 PM
9	608692	BS-09	Synthesis and magnetic properties of electrospun FeNi nanofiber arrays	Sang Woo Kim	Poster	1:00 PM 1:00 PM
10	605185	BS-10	Production of magnetically soft submicron particles from an aqueous solution and characterization	Yutaka Shimada	Poster	1:00 PM 1:00 PM
11	601046	BS-11	Influence of oxide layer on high frequency properties of sub-micron sized iron-based alloy particles	Daisuke Kodama	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Soft Magnetic Materials and Applications

Session Abbreviation: BT

Client Session ID: 130

Session Type: Poster

Duration: May 5, 2009 1:00 PM -  
May 5, 2009 5:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Jeffrey McCord

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606982	BT-01	Design of a new electromagnetic actuator which can produce three-dimensional forces	Sheng-Ming Yang	Oral	1:00 PM 1:00 PM
2	607654	BT-02	Application of a flexible film type EMI filter for high-frequency noise suppression on the signal transmission cable	Kyung Sup Lee	Poster	1:00 PM 1:00 PM
3	608798	BT-03	Investigation on magnetic design in electrodeless discharged lamp	Takeshi Yanai	Poster	1:00 PM 1:00 PM
4	607111	BT-04	Magnetic material identification in geometries with non uniform electromagnetic fields using global and local magnetic measurements	Ahmed Abdalh	Poster	1:00 PM 1:00 PM
5	608252	BT-05	On the characterization of a grain oriented steel assembly for the development of high efficiency AC rotating electrical machines	Samuel Lopez	Poster	1:00 PM 1:00 PM
6	606964	BT-06	Effect of tension coating on iron loss at middle frequencies in thin-gauged 3%Si-Fe strips	Seong Soo Cho	Poster	1:00 PM 1:00 PM
7	606980	BT-07	The use of soft magnetic composite material in switched reluctance machine — a study on magnetic, thermal, and vibration characterization	Krishnan Vijayakumar	No Preference	1:00 PM 1:00 PM

8	606757	BT-08	Magnetic dipole modeling combined with material sensitivity analysis for solving an inverse problem of thin ferromagnetic sheet	Dong-Hun Kim	Poster	1:00 PM 1:00 PM
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**Session Information**

Session Title: Energy Conversion  
 Session Abbreviation: BU  
 Client Session ID: 135  
 Session Type: Poster  
 Duration: May 5, 2009 1:00 PM -  
 May 5, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Daniele Davino  
 Session Chair: Siu Lau Ho  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? no

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	602556	BU-01	Optimal design of a double layer permanent magnet dual mechanical port machine for wind power application	Xikai Sun	Poster	1:00 PM 1:00 PM
2	604229	BU-02	Maximum power point tracking control of a double-stator cup-rotor PM wind power generator	Shuangxia Niu	Poster	1:00 PM 1:00 PM
3	605952	BU-03	Characteristics of the linear synchronous generator using energy from mechanical vibration in the vehicle application	Shunsuke Ohashi	No Preference	1:00 PM 1:00 PM
4	606031	BU-04	A new linear transverse flux permanent magnet generator for wave energy conversion	Wenlong Li	Poster	1:00 PM 1:00 PM
5	606767	BU-05	Design and analysis of new fan motors for low-profile cooling applications	Guo-Jhih Yan	Poster	1:00 PM 1:00 PM
6	607319	BU-06	Behavior of a novel thrust magnetic bearing with a cylindrical rotor on high speed rotation	Kimio Hijikata	Poster	1:00 PM 1:00 PM
7	607359	BU-07	Design and analysis of low-speed, direct-coupled permanent magnet generators for wind power applications	Jin-Soon Kim	Poster	1:00 PM 1:00 PM
8	607544	BU-08	Rotor shape design of IPM motor for a reduction of vibration generated by electromagnetic force	Gyu-Hong Kang	Poster	1:00 PM 1:00 PM
9	607590	BU-09	Design of tubular type permanent magnet linear synchronous generator for wave power generation	O-Chang Gwon	Poster	1:00 PM 1:00 PM
10	607690	BU-10	Cogging torque reduction in axial flux machines for small wind turbines	Min-Fu Hsieh	Poster	1:00 PM 1:00 PM
11	607717	BU-11	A Radial Flux Machine with Dual Rotors Dual Output Shafts for Variable Speed Air Conditioners	Min-Fu Hsieh	Poster	1:00 PM 1:00 PM
12	607229	BU-12	Permanent magnet generator design for low speed direct drive applications	David Dorrell	No Preference	1:00 PM 1:00 PM



Session Information
<p>Session Title: Actuators            Session Abbreviation: BV            Client Session ID: 140            Session Type: Poster            Duration: May 5, 2009 1:00 PM -            May 5, 2009 5:00 PM            Session Number Prefix:            Session Hosts: Session Chair: Li-Han Chen            Session Location: Exhibit Hall B            Display individual abstract times in IP? yes</p>

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	603211	BV-01	Comparison of coaxial magnetic gears with different topologies	Linni Jian	Poster	1:00 PM 1:00 PM
2	605546	BV-02	A novel cableless magnetic actuator capable of reversible motion inside a pipe	Hiroyuki Yaguchi	Poster	1:00 PM 1:00 PM
3	606257	BV-03	2d exact analytical solution of armature reaction field in slotted surface mounted PM radial flux synchronous machines	Yacine Amara	Poster	1:00 PM 1:00 PM
4	606672	BV-04	Operating torque estimation of high-speed slotless permanent magnet synchronous machine considering power loss	Un-Ho Lee	Poster	1:00 PM 1:00 PM
5	606989	BV-05	Analytical force calculations for high precision planar actuator with Halbach magnet array	Hao Jiang	Poster	1:00 PM 1:00 PM
6	607094	BV-06	Characteristic comparison between the spiral and the lamination stator in axial field slotless machines	Sang-Ho Lee	Poster	1:00 PM 1:00 PM
7	607579	BV-07	Application of response surface methodology (RSM) in microspeaker design used in mobile phones	Joong Hak Kwon	Poster	1:00 PM 1:00 PM
8	607583	BV-08	Power saving drive in 2-position control of giant-magnetostrictive actuator	Yasukazu Sato	Poster	1:00 PM 1:00 PM
9	607601	BV-09	Design of a voice-coil actuator for optical image stabilization based on genetic algorithm	Myeong-Gyu Song	Poster	1:00 PM 1:00 PM
10	607636	BV-10	Shape optimal design of a 9 pole 10 slot PMLSM for detent force reduction using adaptive response surface method	Hee Sung Yoon	Poster	1:00 PM 1:00 PM
11	607679	BV-11	Characteristics analysis and simulation of permanent magnet actuator with a new control method for air circuit breaker	Lin Heyun	Poster	1:00 PM 1:00 PM
12	608564	BV-12	Characteristic analysis of claw-pole machine using improved equivalent magnetic circuits	Sang-Ho Lee	Poster	1:00 PM 1:00 PM

Session Information
<p>Session Title: Symposium on Spin Hall Effects            Session Abbreviation: CA            Client Session ID: 145</p>

<p>Session Type: Oral</p> <p>Duration: May 6, 2009 9:00 AM - May 6, 2009 11:00 AM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Sadamichi Maekawa</p> <p>Session Location: Room 311-313</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	617393	CA-01	Anomalous Hall and Nernst effects in GaMnAs ferromagnetic semiconductors	Jing Shi	Invited	9:00 AM 9:30 AM
2	616689	CA-02	Spin-injection Hall effect in a planar photovoltaic cell	Joerg Wunderlich	Invited	9:30 AM 10:00 AM
3	617438	CA-03	Negative nonlocal resistance in mesoscopic gold Hall bars: how does it relate to spin Hall effects?	Goran Mihajlovic	Invited	10:00 AM 10:30 AM
4	617145	CA-04	Spin Hall effects and spin Seebeck effect in NiFe/Pt films	Eiji Saitoh	Invited	10:30 AM 11:00 AM

<p><b>Session Information</b></p> <p>Session Title: Symposium on Bio-Magnetism</p> <p>Session Abbreviation: CB</p> <p>Client Session ID: 150</p> <p>Session Type: Oral</p> <p>Duration: May 6, 2009 9:00 AM - May 6, 2009 11:30 AM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Sara Majetich</p> <p>Session Location: Room 314</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	617327	CB-01	Protein assays based on magnetic nanotags and GMR sensors - a new tool for fighting cancer and rapid triaging	Shan Wang	Invited	9:00 AM 9:30 AM
2	615639	CB-02	Scanning tunneling magnetoresistance microscopy for imaging magnetically labeled DNA microarrays	David Horsley	Invited	9:30 AM 10:00 AM
3	607351	CB-03	Anticancer sentinel-lymph-node mapping by sonic waves generated by magnetic beads under ac magnetic field	Masanori Abe	Oral	10:00 AM 10:30 AM
4	618592	CB-04	<i>In Vivo</i> Detection of targeted magnetite nanoparticles by SQUID-relaxometry for early disease detection	Natalie Adolphi	Invited	10:30 AM 11:00 AM
5	617034	CB-05	Magnetic nanoparticles for diagnostic and therapeutic applications	Heinrich Hofmann	Invited	11:00 AM 11:30 AM

<p><b>Session Information</b></p>
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<p>Session Title: Head-Media Interface and Tribology (I)  Session Abbreviation: CC  Client Session ID: 155  Session Type: Oral  Duration: May 6, 2009 9:00 AM -  May 6, 2009 12:00 PM  Session Number Prefix:  Session Hosts: Session Chair: Huan Tang  Session Location: Room 315  Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608386	CC-01	Magnetic spacing trends: from LMR to PMR and beyond	Bruno Marchon	Oral	9:00 AM 9:30 AM
2	598587	CC-02	Monte Carlo simulations of lubricant transfer at the head disk interface	Hiroyuki Kubotera	No Preference	9:30 AM 9:45 AM
3	605780	CC-03	Contact characteristics of spherical head and magnetic disk considering van der Waals forces and elastic deformation of contacting asperities and mean height surfaces	Kyosuke Ono	Oral	9:45 AM 10:00 AM
4	604593	CC-04	Numerical simulation of a "spherical pad" slider flying over bit patterned media	Hui Li	Oral	10:00 AM 10:15 AM
5	607947	CC-05	Media corrosion: not just an overcoat problem	Qing Dai	Oral	10:15 AM 10:30 AM
6	593766	CC-06	Experimental and numerical simulation study on low-surface energy slider with thermal flying-height control function	Yuki Shimizu	Oral	10:30 AM 10:45 AM
7	606662	CC-07	Experimental study of head-disk interface stability and durability at sub-1-nm clearance	Ning Li	Oral	10:45 AM 11:00 AM
8	606910	CC-08	Head disk contact friction measurement and glide test	Jizhong He	Oral	11:00 AM 11:15 AM
9	605427	CC-09	Atomic force microscopy (AFM) and scanning thermal microscopy (SThM) studies of thermal response of perpendicular recording head to writing and heating currents	Yunjie Chen	Oral	11:15 AM 11:30 AM
10	608356	CC-10	Numerical simulation of a thermal flying height control slider with dual heater and insulator elements	Hao Zheng	Oral	11:30 AM 11:45 AM
11	608265	CC-11	Particle scratch reliability for head disk interface - modeling and experiments	Xinjiang Shen	Oral	11:45 AM 12:00 PM

<p><b>Session Information</b></p> <p>Session Title: Magnetic Recording Physics  Session Abbreviation: CD  Client Session ID: 160  Session Type: Oral  Duration: May 6, 2009 9:00 AM -  May 6, 2009 12:00 PM  Session Number Prefix:  Session Hosts: Session Chair: Hans Jürgen Richter</p>
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Session Location: Room 306

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606814	CD-01	Improved jitter noise in exchange spring perpendicular recording	Josef Fidler	Oral	9:00 AM 9:15 AM
2	605162	CD-02	Micromagnetic study of media noise plateau	Yan Dong	Oral	9:15 AM 9:30 AM
3	608514	CD-03	Switching field reduction in FePt/FeRh/FeCo exchange spring trilayers	Tiejun Zhou	Oral	9:30 AM 9:45 AM
4	592737	CD-04	Magnetic cluster size distribution and its relation to read-write performance of advanced recording media	Mitsuhiro Hashimoto	Oral	9:45 AM 10:00 AM
5	608573	CD-05	Estimation of maximum track density in shingled writing magnetic recording	Kenji Miura	Oral	10:00 AM 10:15 AM
6	607897	CD-06	Simulations of perpendicular recording at high linear density on exchange coupled composite continuous and discrete track media.	Jan van Ek	Oral	10:15 AM 10:30 AM
7	605972	CD-07	Comparison of track densities of discrete track media and continuous media: a numerical model	Kezhao Zhang	Oral	10:30 AM 10:45 AM
8	606131	CD-08	Adjacent track erasure of wrapped-around shielded PMR writers	Suping Song	Oral	10:45 AM 11:00 AM
9	606893	CD-09	Reversal properties of write head at extremely high density	Sumei Wang	Oral	11:00 AM 11:15 AM
10	606002	CD-10	Recording integration - reader path	William Huber	Oral	11:15 AM 11:30 AM
11	599203	CD-11	Latency and base pressure effects on the sheet film CIP GMR performance	Xilin Peng	Oral	11:30 AM 11:45 AM
12	607977	CD-12	Simulation of realistic particle packing and impact on high density tape recording	Yiming Wang	Oral	11:45 AM 12:00 PM

**Session Information**

Session Title: Ab-Initio and First Principles Calculations (I)

Session Abbreviation: CE

Client Session ID: 165

Session Type: Oral

Duration: May 6, 2009 9:00 AM -  
May 6, 2009 11:45 AM

Session Number Prefix:

Session Hosts: Session Chair: Dieter Suess

Session Location: Room 307

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607085	CE-01	Interplay of strain and magnetism in manganese perovskites from first principles.	Alessio Filippetti	Oral	9:00 AM 9:15 AM

2	605310	CE-02	Domain wall formation and spin-wave spectra in an Fe monolayer on W(110)	Laszlo Szunyogh	Oral	9:15 AM 9:30 AM
3	606659	CE-03	The GGA+U approach for improved ab-initio modeling of small cobalt clusters.	Yvette Hancock	Oral	9:30 AM 9:45 AM
4	606888	CE-04	Characteristic length scale for spin polarized tunneling in Langmuir-Blodgett molecular magnetic tunnel junction	Dongping Liu	Oral	9:45 AM 10:00 AM
5	606952	CE-05	Suitability of Fe/GaAs and (Co, Ni)Mn(Ga, Ge) for spintronics applications: An ab initio study	Anna Grünebohm	Oral	10:00 AM 10:15 AM
6	604732	CE-06	3d analytical calculation of the torque exerted between two cuboidal magnets	Jean-Paul Yonnet	No Preference	10:15 AM 10:30 AM
7	606796	CE-07	A novel 3d finite element method to obtain unique magnetization distribution in rectangular geometries	Alireza Vashghani Farahani	No Preference	10:30 AM 10:45 AM
8	606833	CE-08	Calculation of the error in approximate methods of computing thermal fluctuation	Edward Della Torre	No Preference	10:45 AM 11:00 AM
9	606138	CE-09	Atomistic simulation of iridium manganese in exchange bias systems	Jerome Jackson	Oral	11:00 AM 11:15 AM
10	606482	CE-10	New stochastic approach for modelling of ultra-fast magnetization dynamics on femto and pico second time scale.	Oksana Chubykalo-Fesenko	Oral	11:15 AM 11:30 AM
11	608147	CE-11	Influence of the geometry of the contact leads on the Oersted field in current-carrying magnetic nanopillars	Riccardo Hertel	Oral	11:30 AM 11:45 AM

### Session Information

Session Title: Spin Electronics and Applications (non-Recording) MRAM

Session Abbreviation: CF

Client Session ID: 170

Session Type: Oral

Duration: May 6, 2009 9:00 AM -  
May 6, 2009 11:45 AM

Session Number Prefix:

Session Hosts: Session Chair: Jonathan Sun

Session Location: Room 308

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	616897	CF-01	After hard drives – what comes next?	Mark Kryder	Invited	9:00 AM 9:30 AM
2	617472	CF-02	Recent results on spin-torque MRAM arrays and technology outlook	Jon Slaughter	Invited	9:30 AM 10:00 AM
3	608309	CF-03	A three-terminal spin torque driven MRAM cell	Jordan Katine	Oral	10:00 AM 10:15 AM
4	606808	CF-04	Current-induced switching in orthogonal polarizer spin-transfer devices <sup>1</sup>	Daniel Bedau	Oral	10:15 AM 10:30 AM

5	606137	CF-05	Inherent switching current fluctuations in STT-MRAM with in-plane magnetization and comparison with perpendicular design	Xiaochun Zhu	Oral	10:30 AM 10:45 AM
6	607495	CF-06	Spin transfer torque switching of exchange pinned TA-MRAM cell	Jérémy Hérault	Oral	10:45 AM 11:00 AM
7	607576	CF-07	Precessional switching of a thin ferromagnetic film by perpendicularly spin polarized current pulses	Cristian Papusoi	Oral	11:00 AM 11:15 AM
8	607640	CF-08	Analysis and design of nonvolatile SRAM using MOSFET-based spin-transistors	Yusuke Shuto	Oral	11:15 AM 11:30 AM
9	606586	CF-09	Dynamical critical curve of a synthetic antiferromagnet	Dorin Cimpoesu	Oral	11:30 AM 11:45 AM

### Session Information

Session Title: RF Micromagnetic Devices and Phenomena  
 Session Abbreviation: CG  
 Client Session ID: 175  
 Session Type: Oral  
 Duration: May 6, 2009 9:00 AM -  
 May 6, 2009 11:45 AM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Masahiro Yamaguchi  
 Session Location: Room 309-310  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606706	CG-01	RF applications of magneto-dielectric substrates combining high $\epsilon$ and high $\mu$	Evangéline Bèvent	Oral	9:00 AM 9:15 AM
2	606265	CG-02	Broadband $\text{Ni}_x\text{Zn}_{0.8-x}\text{Cu}_{0.2}\text{Fe}_2\text{O}_4$ electromagnetic absorber for 1 GHz application	Jae-Jin Lee	Oral	9:15 AM 9:30 AM
3	606100	CG-03	Nonlinear parametric interactions of spin waves in permalloy (Py) films	A. Slavin	Oral	9:30 AM 9:45 AM
4	603490	CG-04	Design of an integrated magneto-optic switch for transparent networks	Jin-Wei Tioh	Poster	9:45 AM 10:00 AM
5	605593	CG-05	Kerr microscopy study of magnetic flux concentrators	Volker Höink	Oral	10:00 AM 10:15 AM
6	606230	CG-06	Size and performance trade-offs in micro-inductors for high frequency dc-dc conversion.	Ronan Meere	No Preference	10:15 AM 10:30 AM
7	604933	CG-07	High efficiency inductive-coupling power delivery with sandwiching thin films of magnetic material	Kiichi Niitsu	No Preference	10:30 AM 10:45 AM
8	606967	CG-08	Study of the GMI effect and orthogonal fluxgate effect of two-wire arrays of amorphous wires	Xiaoping Li	Oral	10:45 AM 11:00 AM
9	605909	CG-09	Contributions of Néel and Brownian relaxations to heat dissipation from magneite dispersion in ac magnetic field	Jeyadevan Balachandran	Oral	11:00 AM 11:15 AM
10	607549	CG-10	Feasibility study on droplet formation using magnetostrictive principle	Byung Hyun Kim	Oral	11:15 AM 11:30 AM

11	607526	CG-11	Design and experimental validation of magnetostrictive scanner for laser machining	Jong-Kwan Jung	Oral	11:30 AM 11:45 AM
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Session Information						
Session Title: Patterned Media (II)						
Session Abbreviation: CP						
Client Session ID: 180						
Session Type: Poster						
Duration: May 6, 2009 8:00 AM - May 6, 2009 12:00 PM						
Session Number Prefix:						
Session Hosts: Session Chair: Vitaliy Lomakin Session Chair: Holger Schmidt						
Session Location: Exhibit Hall B						
Display individual abstract times in IP? yes						

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607942	CP-01	Influences of film microstructure and defects on magnetization reversal in bit patterned Co/Pt multilayer thin film media	Hwan-Soo Lee	Poster	8:00 AM 8:00 AM
2	608065	CP-02	Characterization of patterning noise in self-assembled nano-masks for bit patterned media using image processing	Sheida Nabavi	No Preference	8:00 AM 8:00 AM
3	605657	CP-03	Exchange coupled magnetic dot arrays for next generation bit patterned media	Yuji Kondo	Poster	8:00 AM 8:00 AM
4	607166	CP-04	Microstructure and magnetic properties of FePt films on anodized aluminum oxide membranes	Shih-Yuan Chen	Poster	8:00 AM 8:00 AM
5	607648	CP-05	Modification of magnetic properties and structure of Kr <sup>+</sup> ion dosed CrPt <sub>3</sub> films for planar bit patterned media	Takeshi Kato	Oral	8:00 AM 8:00 AM
6	607415	CP-06	Topography and magnetic properties of planarized patterned magnetic recording media	Chulmin Choi	Poster	8:00 AM 8:00 AM
7	607432	CP-07	Planarization of discrete track recording media to improve flyability of magnetic recording sliders	Yeoungchin Yoon	Oral	8:00 AM 8:00 AM
8	604723	CP-08	Dependence of switching fields on island shape in bit patterned media (BPM)	Josephat Kalezhi	Poster	8:00 AM 8:00 AM
9	605021	CP-09	Channel modeling and two-dimensional equalization for bit-patterned media	Yibin Ng	Poster	8:00 AM 8:00 AM
10	605402	CP-10	Density limit estimation of bit patterned media without assisted writing	Choon Min Cheong	Oral	8:00 AM 8:00 AM
11	607214	CP-11	Reduction of switching field distribution in patterned media using antiferromagnetically coupled layer structure	Suzi Deng	No Preference	8:00 AM 8:00 AM
12	607704	CP-12	Simulation study of bit patterned media with inclined anisotropy at 5 Tbit/in <sup>2</sup>	Naoki Honda	Poster	8:00 AM 8:00 AM
13	607416	CP-13	Fabrication and process issues of bit patterned media for 1 Tbit/in <sup>2</sup> regime	Jun Ariake	Poster	8:00 AM 8:00 AM

14	608459	CP-14	Magnetization reversal process of CoPt patterned dot studied by magnetic force microscopy	Shunji Ishio	Poster	8:00 AM 8:00 AM
15	606927	CP-15	Magnetic properties of patterned CGC perpendicular films with soft magnetic fillings	Maanori Aniya	No Preference	8:00 AM 8:00 AM

**Session Information**

Session Title: Magnetic Microscopy and Characterization (I)

Session Abbreviation: CQ

Client Session ID: 185

Session Type: Poster

Duration: May 6, 2009 8:00 AM -  
May 6, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Guido Meier

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607506	CQ-01	Optimizing the performance of the high-frequency MFM technique	Michael Koblishka	Poster	8:00 AM 8:00 AM
2	608598	CQ-02	Magnetic force microscopy with ultra-high coercivity L10 nanoprobe	Nissim Amos	Poster	8:00 AM 8:00 AM
3	608859	CQ-03	Alignment-free, low temperature magnetic force microscope (LT-MFM) design for 300mK-300K temperature range	Ozgur Karci	Oral	8:00 AM 8:00 AM
4	605912	CQ-04	Amplitude and phase imaging of AC magnetic field on single-pole head by frequency modulated magnetic force microscopy (FM-MFM)	Hitoshi Saito	Oral	8:00 AM 8:00 AM
5	606664	CQ-05	Natural resonant frequency of magnetic slab with multi domain structure	Shigeru Takeda	Poster	8:00 AM 8:00 AM
6	605552	CQ-06	Development of measurement system of magnetic properties at high flux density using novel single sheet tester	Norio Takahashi	Poster	8:00 AM 8:00 AM
7	606975	CQ-07	Image reconstruction algorithm for ECT based on Tikhonov regularization method with constraints	Li Cuihuan	Poster	8:00 AM 8:00 AM
8	607407	CQ-08	Evaluation of a pulsed eddy current signal in the stainless steel	Chandra Angani	Poster	8:00 AM 8:00 AM
9	607691	CQ-09	Electromagnetic transducer with rotational excitation field for 2-dimensional evaluation of fatigue and stress loaded steel samples	Grzegorz Psuj	Poster	8:00 AM 8:00 AM
10	607125	CQ-10	An analytical expression for fractional absorption in Mössbauer spectroscopy	De-Ping Yang	Poster	8:00 AM 8:00 AM

**Session Information**

Session Title: Magnetic Sensing (I)

Session Abbreviation: CR

Client Session ID: 190



Session Type: Poster
Duration: May 6, 2009 8:00 AM - May 6, 2009 12:00 PM
Session Number Prefix:
Session Hosts: Session Chair: Volodymyr Volodymyrovych Kruglyak Session Chair: Andrii V Chumak
Session Location: Exhibit Hall B
Display individual abstract times in IP? no

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606753	CR-01	Bi-metallic magnetic wire with insulating layer as core for orthogonal fluxgate	Mattia Butta	No Preference	8:00 AM 8:00 AM
2	606759	CR-02	Operational gradientmeter	Octavian Baltag	Poster	8:00 AM 8:00 AM
3	606960	CR-03	Study of the noise in multi-core orthogonal fluxgate sensors based on NiFe/Cu composite micro-wires	Jie Fan	Oral	8:00 AM 8:00 AM
4	607158	CR-04	Fluxgate magnetometer electromagnetically compatible with the first-order SQUID gradiometer	Ichiro Sasada	Oral	8:00 AM 8:00 AM
5	607735	CR-05	Linearity of pulse excited coil-less fluxgate	Mattia Butta	No Preference	8:00 AM 8:00 AM
6	604770	CR-06	Contactless electromagnetic temperature sensors for spinning devices	Oriano Bottauscio	Poster	8:00 AM 8:00 AM
7	605443	CR-07	Extending the operating distance of inductive proximity sensor using magnetoplated wire	Takahiro Mizuguchi	Poster	8:00 AM 8:00 AM
8	605551	CR-08	Electromagnetic inspection method of outer side defect on small and thick steel tube using both ac and dc magnetic fields	Yuji Gotoh	Poster	8:00 AM 8:00 AM
9	607517	CR-09	Non-destructive way of detecting cracks in distribution lines	Akio Watanabe	Poster	8:00 AM 8:00 AM
10	607732	CR-10	Integration of excitation coil and pick-up coil array for wireless magnetic motion sensing system	Shuichiro Hashi	Poster	8:00 AM 8:00 AM
11	608029	CR-11	Nondestructive detections of metallic crack using a thin film inductive sensor	Yu-Jung Cha	Poster	8:00 AM 8:00 AM
12	608120	CR-12	On the behavior of an electromagnetic linear position sensor with air-gap	Aly Flores	Poster	8:00 AM 8:00 AM
13	608312	CR-13	A magnetization effect on the sensing signals in magnetic flux leakage type NDT	Kang Seo	Poster	8:00 AM 8:00 AM
14	608820	CR-14	Multivariable Eddy current sensor	Takahiro Kudo	Poster	8:00 AM 8:00 AM

<b>Session Information</b>
Session Title: Magnetic Nanowires, Clusters, and Nanoparticles (III)
Session Abbreviation: CS
Client Session ID: 195
Session Type: Poster
Duration: May 6, 2009 8:00 AM - May 6, 2009 12:00 PM

<p>Session Number Prefix:  Session Hosts: Session Chair: Leonard Spinu  Session Location: Exhibit Hall B  Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606918	CS-01	Nickel nano-wires filled alumina templates for microwave electronics	S. Mishra	Poster	8:00 AM 8:00 AM
2	608479	CS-02	Magnetization reversal in multi-component magnetic nanowires.	Leonard Spinu	Poster	8:00 AM 8:00 AM
3	606214	CS-03	Depinning field at notches of ferromagnetic nanowire with perpendicular magnetic anisotropy	Gi-Hong Gim	Poster	8:00 AM 8:00 AM
4	606661	CS-04	Dynamics of the response time of a magneto-optical switch based on the rotation of superparamagnetic nanoparticle chains formed in magnetorheological fluids	Sang Yoon Park	Poster	8:00 AM 8:00 AM
5	608489	CS-05	Magnetic domain wall movements by interaction with propagating spin waves	Dong-Soo Han	Poster	8:00 AM 8:00 AM
6	608373	CS-06	Influence of silica coating on magnetic properties of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles	Andre Pereira	No Preference	8:00 AM 8:00 AM
7	606227	CS-07	Relativistic investigation of two-impurity interactions at surfaces	Laszlo Szunyogh	Poster	8:00 AM 8:00 AM
8	606500	CS-08	Magnetic investigation of CoFe <sub>2</sub> O <sub>4</sub> nanoparticles supported in biocompatible polymeric microsphere	P. Morais	Poster	8:00 AM 8:00 AM
9	603419	CS-09	Easy preparation and magnetic properties of greigite nanocrystals	Chun-Rong Lin	Poster	8:00 AM 8:00 AM
10	608393	CS-10	Magnetoresistance of epitaxial Fe <sub>3</sub> O <sub>4</sub> nanowire	Han-Chun Wu	Poster	8:00 AM 8:00 AM
11	606883	CS-11	A new drug of BCNU bound on magnetic nano-particles and their in vitro antitumor activity against Glioma C6 cells	Hung Wei Yang	Poster	8:00 AM 8:00 AM
12	607710	CS-12	Template synthesis of cobalt nanowires using diblock copolymer	Sudha Rani Vishnubhotla	Poster	8:00 AM 8:00 AM

Session Information
<p>Session Title: Spin Transfer Torque Phenomena (III)  Session Abbreviation: CT  Client Session ID: 200  Session Type: Poster  Duration: May 6, 2009 8:00 AM -  May 6, 2009 12:00 PM  Session Number Prefix:  Session Hosts: Session Chair: Giovanni Finocchio  Session Location: Exhibit Hall B  Display individual abstract times in IP? yes</p>

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608822	CT-01	Current-driven magnetization dynamics of vortex and onion states in a nanomagnet	Daniel Buegler	Oral	8:00 AM 8:00 AM
2	606349	CT-02	Current-driven domain-wall depinning in Pt/CoFe/Pt nanowire with perpendicular magnetic anisotropy	Kab-Jin Kim	Poster	8:00 AM 8:00 AM
3	606379	CT-03	Parameter dependence of resonant spin torque magnetization reversal	Hans Schumacher	Poster	8:00 AM 8:00 AM
4	607217	CT-04	Micromagnetic study of switching boundary of a ferromagnetic nanodevice	Yan Zhou	Oral	8:00 AM 8:00 AM
5	607502	CT-05	Back hopped switching error in spin transfer torque MRAM	Hiroyuki Ohmori	No Preference	8:00 AM 8:00 AM
6	608690	CT-06	Spin-torque modulation of magneto-impedance spectra in magnetic tunnel junctions	Chao-Ming Fu	Oral	8:00 AM 8:00 AM
7	605095	CT-07	Proposal for a robust measurement scheme of the non-adiabatic spin torque using the deflection of magnetic vortices	Benjamin Krueger	Oral	8:00 AM 8:00 AM
8	607067	CT-08	Non-adiabatic spin transfer torque in a domain wall	Tomohiro Taniguchi	Oral	8:00 AM 8:00 AM
9	608780	CT-09	Driving domain walls: effect of perpendicular spin torque in STT driven switching	Jian-Gang Zhu	Oral	8:00 AM 8:00 AM
10	608231	CT-10	Reduction of the critical current for spin-transfer switching of perpendicularly magnetized nanomagnets	Stephane Mangin	Oral	8:00 AM 8:00 AM

### Session Information

Session Title: Magneto-Dielectric Materials and Meta-Materials (I)

Session Abbreviation: CU

Client Session ID: 205

Session Type: Poster

Duration: May 6, 2009 8:00 AM -  
May 6, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Samuel E Lofland

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605843	CU-01	Dielectric and magnetic properties of Co <sub>2</sub> O <sub>3</sub> modified 0.4PZT+0.6NiCuZn-ferrite composites	Lijun Jia	No Preference	8:00 AM 8:00 AM
2	606050	CU-02	Fabrication and simulation of a dual composite right/left handed differential transmission line with common mode filtering function	Hidetoshi Nakayama	No Preference	8:00 AM 8:00 AM
3	606220	CU-03	Effects of the electric component on left-handed metamaterial	Young Pak Lee	Poster	8:00 AM 8:00 AM

4	607224	CU-04	Modeling and simulation of flat panel speaker using magnetostrictive actuator	Hyung Wook Choi	Poster	8:00 AM 8:00 AM
5	607364	CU-05	Electromagnetic properties of a new ferrite-ceramic composite material	Ying He	Poster	8:00 AM 8:00 AM
6	607589	CU-06	Dielectric permittivity study of SiO <sub>2</sub> /Co/SiO <sub>2</sub> films	Yd Yao	Poster	8:00 AM 8:00 AM
7	608334	CU-07	Nonlinear homogenization for calculation of electromagnetic properties of soft magnetic composite materials	Belkadi Mohamed	Poster	8:00 AM 8:00 AM
8	608480	CU-08	Magnetic and crystal structure transition on La <sub>0.2</sub> Ho <sub>0.8</sub> Mn <sub>2</sub> O <sub>5</sub> oxide	Hsiung Chou	Poster	8:00 AM 8:00 AM
9	608518	CU-09	Magneto-electric coupling changed by proton irradiation in the CoCr <sub>2</sub> O <sub>4</sub>	Kang Ryong Choi	Poster	8:00 AM 8:00 AM

### Session Information

Session Title: Applications of Permanent Magnetic Materials

Session Abbreviation: CV

Client Session ID: 210

Session Type: Poster

Duration: May 6, 2009 8:00 AM -  
May 6, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Michaela Kuepferling

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	604493	CV-01	Calculation of the static forces among the magnets in a Halbach array	Hans Rovers	Oral	8:00 AM 8:00 AM
2	604935	CV-02	Feasibility study on a new energy harvesting electromagnetic device using aerodynamic instability	Hyung-Jo Jung	Poster	8:00 AM 8:00 AM
3	605619	CV-03	Strong permanent magnet dipole with reduced demagnetization effect	Chun Li	Poster	8:00 AM 8:00 AM
4	606362	CV-04	Analysis of an E-core interior permanent magnet linear oscillating actuator	Z. Q. Zhu	Poster	8:00 AM 8:00 AM
5	606374	CV-05	Radial stiffness of ferrofluid seals : theoretical modeling and experimental results.	Guy Lemarquand	No Preference	8:00 AM 8:00 AM
6	606433	CV-06	Enhancements of substrate deposition rate and target erosion profile in a dc magnetron sputtering system	Cheng-Tsung Liu	No Preference	8:00 AM 8:00 AM
7	606476	CV-07	Analytical calculation of magnetic coenergy and mechanical energy output in a permanent magnet system	Zou Bin	Oral	8:00 AM 8:00 AM
8	607188	CV-08	Vibration circuit breaker using repulsive magnets and ferromagnets	Kazuhiro Nishimura	Poster	8:00 AM 8:00 AM
9	607427	CV-09	Development of permanent magnetic system for single crystal growth	Siu-lau Ho	No Preference	8:00 AM 8:00 AM
10	608395	CV-10	Field analysis and comparison of several dipole permanent magnet structures	Bo Zhang	No Preference	8:00 AM 8:00 AM

Session Information						
Session Title: Motor Control						
Session Abbreviation: CW						
Client Session ID: 215						
Session Type: Poster						
Duration: May 6, 2009 8:00 AM - May 6, 2009 12:00 PM						
Session Number Prefix:						
Session Hosts: Session Chair: Zu Guang Zhang Session Chair: Zhejie Liu						
Session Location: Exhibit Hall B						
Display individual abstract times in IP? yes						

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605192	CW-01	Efficiency optimization of a permanent-magnet hybrid brushless machine using DC field current control	Chunhua Liu	Poster	8:00 AM 8:00 AM
2	606656	CW-02	Harmonic iron loss analysis of electrical machines for high-speed operation considering driving condition and speed	Jang-Ho Seo	Poster	8:00 AM 8:00 AM
3	607311	CW-03	Temperature compensation algorithm according to temperature of IPMSM for HEV	Jong-Bin Im	Poster	8:00 AM 8:00 AM
4	607408	CW-04	Optimal magnet design of PMA-SynRM for wide constant-power operation	WonHo Kim	Poster	8:00 AM 8:00 AM
5	607582	CW-05	A study on the characteristics of unbalanced impedance and thrust reduction of PMLSM according to end effect	Lee Seung Hoon	Poster	8:00 AM 8:00 AM
6	607599	CW-06	Detection of saturation in the iron core of a welding transformer based on an artificial neural network	Klemen Dezelak	No Preference	8:00 AM 8:00 AM
7	607627	CW-07	An intensive investigation into reduction of vibration in switched reluctance motors	Jian Li	Poster	8:00 AM 8:00 AM
8	607778	CW-08	A study on Auxiliary core design of PMLSM to reduce the detent force according to end effect	Lee Seung Hoon	Poster	8:00 AM 8:00 AM
9	608170	CW-09	Operational range evaluation based on constraint parameters estimation for interfacing design with control field of high-speed permanent magnet synchronous machine	So-Young Sung	Poster	8:00 AM 8:00 AM
10	608484	CW-10	Sensorless drive for brushless DC motor using simple voltage detecting circuit	Sung Chul Go	Poster	8:00 AM 8:00 AM
11	608521	CW-11	Design of position detection strategy of sensorless permanent magnet motors at standstill using transient finite element analysis	Weinong Fu	Oral	8:00 AM 8:00 AM
12	608653	CW-12	PM synchronous motor speed control using hybrid fuzzy PI with novel switching functions	Amit Vilas Sant	No Preference	8:00 AM 8:00 AM

Session Information						
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<p>Session Title: Symposium on Magnetic Sensors for Space Applications</p> <p>Session Abbreviation: DA</p> <p>Client Session ID: 220</p> <p>Session Type: Oral</p> <p>Duration: May 6, 2009 2:00 PM - May 6, 2009 4:00 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Marina Díaz - Michelena</p> <p>Session Location: Room 311-313</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	617418	DA-01	Space environment and scientific missions	Robert Strangeway	Invited	2:00 PM 2:30 PM
2	617476	DA-02	The challenges of magnetometry in space	Neil Murphy	Invited	2:30 PM 3:00 PM
3	617082	DA-03	Calibration of magnetometers	Jose M. G. Merayo	Invited	3:00 PM 3:30 PM
4	617020	DA-04	Future directions for sensors for space applications	Werner Magnes	Invited	3:30 PM 4:00 PM

<p><b>Session Information</b></p> <p>Session Title: Mr-Based Sensors (Including GMR, Spin-Valves, MTJ, CPP, etc.)</p> <p>Session Abbreviation: DB</p> <p>Client Session ID: 225</p> <p>Session Type: Oral</p> <p>Duration: May 6, 2009 2:00 PM - May 6, 2009 3:45 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Stefan Maat</p> <p>Session Location: Room 314</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	598190	DB-01	Measurement of effective free layer magnetization orientation of TMR sensors	Alexander Taratorin	Oral	2:00 PM 2:15 PM
2	600725	DB-02	Effect of current screen layer on bias voltage dependence of MR ratio in Heusler alloy based CPP-GMR sensor	Yo Sato	Oral	2:15 PM 2:30 PM
3	605570	DB-03	Influence of diffused boron into MgO barrier on pinhole creation in CoFeB/MgO/CoFeB magnetic tunnel junctions	Koujiro Komagaki	No Preference	2:30 PM 2:45 PM
4	607022	DB-04	A model of the exchange-bias setting process in spin valves and tunnelling readers.	Roy Chantrell	Oral	2:45 PM 3:00 PM
5	608287	DB-05	Electrical and magnetic 1/ f noise in magnetic tunnel junctions	Christian Kaiser	Oral	3:00 PM 3:15 PM
6	608448	DB-06	Influence of Boron Diffusion on Transport and Magnetic properties in CoFeB/CoFe/MgO/CoFeB Magnetic Tunnel Junction	Chando Park	Oral	3:15 PM 3:30 PM

7	607722	DB-07	Spin scattering asymmetry in CPP spin valves with alternated monatomic [Fe/Co] <sub>n</sub> superlattice and Au spacer	Masashi Sahashi	Oral	3:30 PM 3:45 PM
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**Session Information**

Session Title: Recording Heads and Materials

Session Abbreviation: DC

Client Session ID: 230

Session Type: Oral

Duration: May 6, 2009 2:00 PM -  
May 6, 2009 4:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Kaizhong Guo

Session Location: Room 315

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	604907	DC-01	Magneto-optic write head characterization using a garnet imaging film	Juergen Heidmann	Oral	2:00 PM 2:15 PM
2	600207	DC-02	Recording head characterization using narrow domain walls in epitaxial garnet films	Juergen Heidmann	Oral	2:15 PM 2:30 PM
3	605270	DC-03	Analysis of track edge noise from write heads with different dimensions	Yosuke Urakami	Oral	2:30 PM 2:45 PM
4	605140	DC-04	Characterization of skip or far track erasure in a side shield design	Yue Liu	Oral	2:45 PM 3:00 PM
5	608585	DC-05	Pole tip optimization for bit patterned recording	Thomas Schrefl	Oral	3:00 PM 3:15 PM
6	598183	DC-06	Inductance saturation of perpendicular recording heads in magnetic field	Alexander Taratorin	Oral	3:15 PM 3:30 PM
7	606639	DC-07	Simultaneous optimal design of the yoke and the coil in the perpendicular magnetic recording head	Jeonghoon Yoo	Oral	3:30 PM 3:45 PM
8	605831	DC-08	Write head modeling for shingled recording	Yasushi Kanai	No Preference	3:45 PM 4:00 PM

**Session Information**

Session Title: Ultra-Thin Films and Surface Effect

Session Abbreviation: DD

Client Session ID: 235

Session Type: Oral

Duration: May 6, 2009 2:00 PM -  
May 6, 2009 3:45 PM

Session Number Prefix:

Session Hosts: Session Chair: Stéphane Andrieu

Session Location: Room 306

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607744	DD-01	Thickness-dependent magnetic properties of $Ba_{1-x}Bi_xFeO_3$ thin films for spin-filer junction	Kosuke Yoshimoto	Oral	2:00 PM 2:15 PM
2	608290	DD-02	In-situ time-resolved probing of magnetization dynamics in $Ni_{80}Fe_{20}$ thin films	Byoung Choi	Oral	2:15 PM 2:30 PM
3	607733	DD-03	The extraordinary optical transmission through dielectric hole-array coated with TbFeCo thin film	Jia Hong Shyu	Oral	2:30 PM 2:30 PM
4	606941	DD-04	Ultra-thin film magnetite islands studied by spin-polarized low energy electron microscopy	Juan de la Figuera	Oral	2:30 PM 2:45 PM
5	605646	DD-05	Fabrication of antiferromagnetic $\alpha-Cr_2O_3(0001)$ thin film of high quality toward the control of magnetism of ultrathin film by ME effect	Yu Shiratsuchi	Oral	2:45 PM 3:00 PM
6	597933	DD-06	Study of the structure and magnetic properties of $Co_2MnSi$ thin films onto Si	Ariful Nahid	Oral	3:00 PM 3:15 PM
7	606033	DD-07	Epitaxial growth of $Fe_xCo_{1-x}$ thin films on $MgO(110)$ single-crystal substrates	Mitsuru Ohtake	Oral	3:15 PM 3:30 PM
8	605428	DD-08	Competing magnetoresistance contributions in FePt thin film at low temperatures.	Paola Tiberto	Oral	3:30 PM 3:45 PM

#### Session Information

Session Title: Hysteresis Modeling  
 Session Abbreviation: DE  
 Client Session ID: 240  
 Session Type: Oral  
 Duration: May 6, 2009 2:00 PM -  
 May 6, 2009 4:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Gergely Zimanyi  
 Session Location: Room 307  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	604718	DE-01	Homogenized magnetic properties of heterogeneous anisotropic media including nonlinearities	Oriano Bottauscio	No Preference	2:00 PM 2:15 PM
2	605133	DE-02	Nonlinear resonant and chaotic magnetization dynamics in microwave assisted magnetization switching	Massimiliano d'Aquino	Oral	2:15 PM 2:30 PM
3	608020	DE-03	Frequency dependence of hysteresis loss in an interacting nanoparticle system	Roy Chantrell	Oral	2:30 PM 2:45 PM
4	608143	DE-04	Typical features on the FORC diagrams related to mean field interactions in magnetic structures	Radu Tanasa	Oral	2:45 PM 3:00 PM
5	606493	DE-05	Identification algorithm for the vector Preisach-LLG model	Laurentiu Stoleriu	Oral	3:00 PM 3:15 PM



6	606691	DE-06	Modeling the temperature dependence of hysteresis based on Jiles-Atherton theory	A. Raghunathan	Oral	3:15 PM 3:30 PM
7	607362	DE-07	Modeling magnetic hysteresis under dc-biased magnetization using neural network	Siu-lau Ho	No Preference	3:30 PM 3:45 PM
8	606387	DE-08	Computer modeling for apparent image effect in closed-circuit magnetic measurement	C. Chen	Oral	3:45 PM 4:00 PM

**Session Information**

Session Title: Magnetoimpedance and MEMS

Session Abbreviation: DF

Client Session ID: 245

Session Type: Oral

Duration: May 6, 2009 2:00 PM -  
May 6, 2009 4:00 PM

Session Number Prefix:

Session Hosts: Session Chair: David Menard

Session Location: Room 308

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	604698	DF-01	Giant magnetoimpedance stray field detector	Stanislav Volchkov	Oral	2:00 PM 2:15 PM
2	606256	DF-02	Low loss Ba <sub>2-x</sub> Sr <sub>x</sub> Co <sub>2</sub> Fe <sub>12</sub> O <sub>22</sub> Y-type hexaferrite for 1 ~ 3 GHz applications	Jun-Sig Kum	Oral	2:15 PM 2:30 PM
3	606540	DF-03	Multipeak FMR absorption spectra in biphasic magnetic microwires	Jacob Torrejon	Oral	2:30 PM 2:45 PM
4	605842	DF-04	Existence of three stable states of magnetic domain for the stepped giant magnetoimpedance element and a proposal for a sensor with memory function	Tomoo Nakai	No Preference	2:45 PM 3:00 PM
5	606354	DF-05	Low noise amorphous wire magnetoimpedance sensor having pico-Tesla sensitivity	Tsuyoshi Uchiyama	No Preference	3:00 PM 3:15 PM
6	606860	DF-06	ANN modeling technique for RF MEMS phase shifter	Qun Wu	Oral	3:15 PM 3:30 PM
7	606741	DF-07	A wafer-scale packaging with vertical feedthroughs for RF MEMS phase shifter applications	Qun Wu	No Preference	3:30 PM 3:45 PM
8	608107	DF-08	Enhancing the performance of magnetic tunnel junction sensors using MEMS resonators	Gerardo Jaramillo	No Preference	3:45 PM 4:00 PM

**Session Information**

Session Title: Magneto-Dielectric Materials and Meta-Materials (II)

Session Abbreviation: DG

Client Session ID: 250

Session Type: Oral

Duration: May 6, 2009 2:00 PM -  
May 6, 2009 4:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Zbigniew Celinski

Session Location: Room 309-310

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	603493	DG-01	Magnetoelectricity in piezoelectric/magnetostrictive nanocomposites at microwave frequencies	Vincent Castel	Oral	2:00 PM 2:15 PM
2	605207	DG-02	Magneto-dielectric thin film heterostructure with high permeability and permittivity	Kevin Garello	Oral	2:15 PM 2:30 PM
3	606180	DG-03	Design, fabrication, and testing of 3-D miniaturized rectangular cavity resonator based on metamaterial	Qun Wu	Oral	2:30 PM 2:45 PM
4	606645	DG-04	Comparison of direct and converse magnetoelectric effect in laminate composite	Tao Wu	Oral	2:45 PM 3:00 PM
5	607662	DG-05	Epitaxial strain and chemical doping effects on the magnetic properties of magnetoelectric orthorhombic YMnO <sub>3</sub> thin films	Josep Fontcuberta	Oral	3:00 PM 3:15 PM
6	606660	DG-06	Low loss composite material for high-frequency applications consisting of Zn-Ni-Fe fine flakes	Yasushi Shirakata	No Preference	3:15 PM 3:30 PM
7	606913	DG-07	Multiferroic properties of BiFeO <sub>3</sub> ceramics and BiFeO <sub>3</sub> /Co/BiFeO <sub>3</sub> layer structure	Wang Zih-Siang	No Preference	3:30 PM 3:45 PM
8	606917	DG-08	Magnetization studies of multiferroic LaFeO <sub>3</sub> -BaTiO <sub>3</sub> ceramics	Jung Chang Uk	No Preference	3:45 PM 4:00 PM

**Session Information**

Session Title: Advanced Magnetic Recording

Session Abbreviation: DP

Client Session ID: 255

Session Type: Poster

Duration: May 6, 2009 1:00 PM -  
May 6, 2009 4:00 PM

Session Number Prefix:

Session Hosts: Session Chair: S.N. Piramanayagam

Session Chair: Yunhao Xu

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	597606	DP-01	Enhanced structural and magnetic ordering of FePt/SiO <sub>2</sub> bilayers by ion-beam bombardment and annealing	Ko-Wei Lin	Poster	1:00 PM 1:00 PM
2	605261	DP-02	Microstructure analysis of ultrathin Ag effect on perpendicular FePt film	Jai-Lin Tsai	Poster	1:00 PM 1:00 PM
3	605879	DP-03	Formation of ordered FePt(001) texture with reduced diffusion length	Jen-Hwa Hsu	Poster	1:00 PM 1:00 PM

4	608632	DP-04	Chemical stability and microstructure of highly (0001) textured Sm(CoCu) <sub>5</sub> thin films with a thin Ta capping layer	Haibao Zhao	Poster	1:00 PM 1:00 PM
5	597915	DP-05	Realization of 15 Gb/in <sup>2</sup> media with fine barium-ferrite particle for linear tape system	Ayako Matsumoto	Poster	1:00 PM 1:00 PM
6	605461	DP-06	Effect of inter-track interference on the areal density of magnetic tape sputtered media	David Berman	No Preference	1:00 PM 1:00 PM
7	607891	DP-07	Effect of tape longitudinal dynamics on timing recovery and channel performance	Wayne Imano	Poster	1:00 PM 1:00 PM
8	608108	DP-08	Conversion of nano-sized spherical magnetite (S-Mag) to spherical barium ferrite (S-BaFe) nanoparticles for high density particulate recording media	Jeevan Jalli	Poster	1:00 PM 1:00 PM
9	606547	DP-09	Study of heat assisted magnetic recording with matching media and recording head field	Jialin Liao	Poster	1:00 PM 1:00 PM
10	605832	DP-10	Investigation of high and low mobility sputter conditions to enhance decoupling in oxide composite media	Hwan-Soo Lee	Poster	1:00 PM 1:00 PM
11	606912	DP-11	High resolution MFM imaging of perpendicular and in-plane magnetic stray field gradients for perpendicular magnetic recording media	Satoru Yoshimura	Poster	1:00 PM 1:00 PM
12	606974	DP-12	Optimization of exchange coupled composite media by tuning anisotropy in laminated soft layer	Hao-Cheng Hou	Poster	1:00 PM 1:00 PM
13	607357	DP-13	Formation of (001) texture L10 FePt films with Fe-Ox underlayer	Bin Ma	Poster	1:00 PM 1:00 PM
14	607040	DP-14	High recording performance of improved nanoCAP tape media	Tetsutaro Inoue	Poster	1:00 PM 1:00 PM
15	607684	DP-15	Comparison of playback performance of facing targets sputtered perpendicular and longitudinal tape media	Satoshi Matsunuma	Poster	1:00 PM 1:00 PM
16	608563	DP-16	Study of perpendicular AME media in a linear tape drive	Pierre-Olivier Jubert	Poster	1:00 PM 1:00 PM
17	605599	DP-17	Automatic design optimization of plasmon antenna for TAMR	Kenichi Takano	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Patterned Films and Elements (II)

Session Abbreviation: DQ

Client Session ID: 260

Session Type: Poster

Duration: May 6, 2009 1:00 PM -  
May 6, 2009 4:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Mathias Klaui  
Session Chair: Andy Thomas

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608357	DQ-01	Static and dynamic properties of sub-100 nm Fe nanodot arrays	Zhigang Liu	Poster	1:00 PM 1:00 PM
2	608434	DQ-02	Phase diagrams for vortex-core switching threshold field and switching time	Ki-Suk Lee	Poster	1:00 PM 1:00 PM
3	604713	DQ-03	MOKE and AHE measurements of rectangular magnetic islands	Marios Alexandrou	Poster	1:00 PM 1:00 PM
4	605766	DQ-04	One way propagation of domain wall in artificial asymmetric configurations	Seungha Yoon	Poster	1:00 PM 1:00 PM
5	607658	DQ-05	Weak localization behavior in template-grown Py antidot networks	Diana Leitão	Poster	1:00 PM 1:00 PM
6	604715	DQ-06	Superparamagnetic behavior of Pt/CoFe/Pt nanowires with decreasing wire width	Jae-Chul Lee	Poster	1:00 PM 1:00 PM
7	608379	DQ-07	Investigation on the magnetization reversal of nanostructured magnetic tunnel junction rings	C.C. Chen	Poster	1:00 PM 1:00 PM
8	607949	DQ-08	Ferromagnetic resonance of arrays of nanosized permalloy stripes	Leszek Malkinski	Poster	1:00 PM 1:00 PM
9	606782	DQ-09	Microwave magnetic properties of NiFe nano-strips	L. Malkinski	Poster	1:00 PM 1:00 PM
10	606879	DQ-10	Interdot coupling on vortex state of nano-patterned permalloy dots array	Jong-Ching Wu	Poster	1:00 PM 1:00 PM
11	607056	DQ-11	The effects of size distribution and magnetic anisotropy on the switching field distribution of Co/Pd multilayered patterned arrays	Long Chang	Poster	1:00 PM 1:00 PM
12	607423	DQ-12	Single crystal Fe elements patterned by selective chemical wet-etching	Ya Zhai	Oral	1:00 PM 1:00 PM
13	606979	DQ-13	Local switching in patterned permalloy elements by focusing-MOKE measurements	Ya Zhai	Oral	1:00 PM 1:00 PM

### Session Information

Session Title: Magnetic Sensing (II)  
 Session Abbreviation: DR  
 Client Session ID: 265  
 Session Type: Poster  
 Duration: May 6, 2009 1:00 PM -  
 May 6, 2009 4:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Vasyl Tyberkevych  
 Session Chair: Marcelo Knobel  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? no

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606827	DR-01	Development of tilt-compensated electronic compass	Yoshinobu Honkura	Poster	1:00 PM 1:00 PM
2	606944	DR-02	Synthesis and magnetic properties of FeNi nanowires electro-deposited on nano-porous alumina templates	Sang-Geun Cho	Poster	1:00 PM 1:00 PM

3	607396	DR-03	Magnetic angle sensors based on oblique giant magneto impedance (GMI) devices	Dohun Kim	Poster	1:00 PM 1:00 PM
4	607861	DR-04	Sensitivity and capacitively coupled noise of coaxial line type magneto-impedance sensor constructed with cobalt base amorphous wire	Kwang-Ho Shin	Poster	1:00 PM 1:00 PM
5	597934	DR-05	Error reduction of spin-valve type magnetic rotation angle sensor	Yasuyuki Okada	Oral	1:00 PM 1:00 PM
6	605704	DR-06	A fast magnetization reversal of antiparallel switching process in FeCoV wire for sensor application	Takeshi Kusunoki	Poster	1:00 PM 1:00 PM
7	605762	DR-07	"Negative" hysteresis in magnetoelastic torque transducers	Ivan Garshelis	No Preference	1:00 PM 1:00 PM
8	607210	DR-08	Barkhausen noise in the ion implanted amorphous ribbon	Hoon Song	Poster	1:00 PM 1:00 PM
9	608380	DR-09	A research on the structure of permanent magnets in the dual magnetic float type level gauge	Dongsok Kim	Poster	1:00 PM 1:00 PM
10	607668	DR-10	Numerical analysis of in-vitro GMR/TMR biosensors with immobilized ferrimagnetic sensor agents for single molecular detection	Ping Zhang	Poster	1:00 PM 1:00 PM
11	607892	DR-11	Quantitative analysis of magnetic beads using photoresist micro-well on PHR Sensor	Sunjong Oh	Poster	1:00 PM 1:00 PM
12	606229	DR-12	3-D magnetic field measurements in a single SERF atomic magnetometer cell	Alex Gusarov	Poster	1:00 PM 1:00 PM
13	606981	DR-13	Effect of stress due to plastic package moisture absorption in Hall sensors	Juan Cesaretti	No Preference	1:00 PM 1:00 PM
14	608486	DR-14	Analysis of Total Harmonic Distortion in microspeakers considering the electromagnetic mechanical acoustic coupling effect	Joong-Hak Kwon	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Biomagnetic Applications (I)  
 Session Abbreviation: DS  
 Client Session ID: 270  
 Session Type: Poster  
 Duration: May 6, 2009 1:00 PM -  
 May 6, 2009 4:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Mark Tondra  
 Session Chair: Yasushi Takemura  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605063	DS-01	Development of a high-sensitive optically-pumped atomic magnetometer for biomagnetic field measurements: A phantom study	Shuji Taue	Poster	1:00 PM 1:00 PM

2	606652	DS-02	Biomolecular recognition protocol based on optical transmittance of solutions containing self-assembled chains of functionalized magnetic nanoparticles	Sang Yoon Park	Poster	1:00 PM 1:00 PM
3	608490	DS-03	High-throughput top-down fabrication of magnetic particles for medical diagnostics, biosensor, and bioseparation applications	Julia Litvinov	Poster	1:00 PM 1:00 PM
4	609207	DS-04	Synthesis of thermoresponsive Au/iron oxide micelles for imaging, drug delivery and magnetic hyperthermia	Dong-Hyun Kim	Poster	1:00 PM 1:00 PM
5	607198	DS-05	Examination of multidirectional exciting coil located outside the body for functional hyperthermia	Kentaro Furiya	Poster	1:00 PM 1:00 PM
6	605718	DS-06	Study of the optimum injection sites for a multiple metastasis region in cancer therapy by using MFH	Mariana Pavel	Poster	1:00 PM 1:00 PM
7	607150	DS-07	Variance analysis of current source reconstruction using 3D MCG measurements	Massimo De Melis	Poster	1:00 PM 1:00 PM
8	606642	DS-08	Complexity analysis of magnetic stimulation at acupoint of Zusanli(St36)on EEG	Weili Yan	No Preference	1:00 PM 1:00 PM
9	605684	DS-09	Equivalent circuit simulation of the induced artifacts resulted from transcranial magnetic stimulation on human electroencephalography	Yoshinori Katayama	Poster	1:00 PM 1:00 PM
10	605292	DS-10	Optimization of metallic implant coated by diamagnetic material to reduce magnetic disturbance in magnetic resonance imaging	Yanhui Gao	Oral	1:00 PM 1:00 PM
11	605191	DS-11	Research on 3d reconstruction for head MRI image based on immune sphere-shaped SVM	Xueqin Shen	Poster	1:00 PM 1:00 PM
12	606771	DS-12	Detection of transient changes in magnetic resonance signal intensity arising from neuronal electrical activities	Masaki Sekino	Poster	1:00 PM 1:00 PM
13	607519	DS-13	Broad area excitation system for direct feeding method FES using magnetic coupling	Yosuke Kohata	Poster	1:00 PM 1:00 PM
14	607435	DS-14	Effects of coil parameters on the stimulated area by transcranial magnetic stimulation	Keiji Iramina	Poster	1:00 PM 1:00 PM
15	599251	DS-15	Optimization array magnetic coil design for functional magnetic stimulation based on improved genetic algorithm	Weinong Fu	Poster	1:00 PM 1:00 PM
16	606775	DS-16	Effects of electromagnetic field of UHV transmission lines exposure on testis tissue in mice	Yan Weili	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Molecular and Novel Magnetic Materials

Session Abbreviation: DT

Client Session ID: 275

Session Type: Poster

Duration: May 6, 2009 1:00 PM -  
May 6, 2009 4:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Sang-Koog Kim Session Location: Exhibit Hall B Display individual abstract times in IP? yes
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608301	DT-01	Heusler compounds go nano: Co <sub>2</sub> FeZ	Claudia Felser	Oral	1:00 PM 1:00 PM
2	608612	DT-02	Magnetic properties of 3-dimensional arrays of magnetic rods	Leszek Malkinski	Poster	1:00 PM 1:00 PM
3	607389	DT-03	Magnetic and magnetoresistive properties of double perovskite oxides RESrMnCoO <sub>6</sub> (RE - Nd, La)	V. Sankaranarayanan	Poster	1:00 PM 1:00 PM
4	605791	DT-04	Study of hysteresis in spin crossover systems using a new Monte Carlo elastic model	Cristian Enachescu	Poster	1:00 PM 1:00 PM
5	603403	DT-05	Magnetic properties of iron selenide nanocrystals synthesized by the thermal decomposition	Chun-Rong Lin	Poster	1:00 PM 1:00 PM
6	607951	DT-06	New iron oxalates: effect of bridging ligands, valence and nature of transitional ion species on magnetic properties	George Filoti	Oral	1:00 PM 1:00 PM

Session Information
Session Title: Permanent Magnetic Materials (I) Session Abbreviation: DU Client Session ID: 280 Session Type: Poster Duration: May 6, 2009 1:00 PM - May 6, 2009 4:00 PM Session Number Prefix: Session Hosts: Session Chair: Oliver Gutflish Session Location: Exhibit Hall B Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606992	DU-01	The spin moment of SmFe <sub>7</sub> observed by magnetic Compton scattering	Soichiro Mizusaki	Poster	1:00 PM 1:00 PM
2	605983	DU-02	The magnetic properties of AlNiCo magnets prepared by hot pressing and hot deforming	Don Lee	Poster	1:00 PM 1:00 PM
3	606339	DU-03	Influence of underlayer on magnetic properties of 3 μm thick Sm <sub>2</sub> TM <sub>17</sub> (TM=Co, Fe, Cu, and Zr) quinary films	Peng Long	Poster	1:00 PM 1:00 PM
4	607167	DU-04	Microstructure control and magnetic property of Nd-Fe-B sintered magnets after a cyclic heat-treatment	Hoon-sup Kim	Poster	1:00 PM 1:00 PM
5	607752	DU-05	Synthesis and magnetic properties of BaFe <sub>12-x</sub> Al <sub>x</sub> O <sub>19</sub> nano-powders	Ki-woong Moon	Poster	1:00 PM 1:00 PM
6	608517	DU-06	The study on thermal expansion of sintered Sm <sub>2</sub> Co <sub>17</sub> magnets	Anhua Li	Poster	1:00 PM 1:00 PM

7	608787	DU-07	Electrodeposited Co-Pt-(P) films prepared by low temperature process	Masaki Nakano	Poster	1:00 PM 1:00 PM
8	608661	DU-08	Magnetism and transport in RCoAl (R = Gd, Tb and Dy) compounds	S. Malik	Poster	1:00 PM 1:00 PM
9	606900	DU-09	Spacer layer effect and magnetic properties of multilayer [(FePt) <sub>x</sub> /Os] <sub>n</sub> films	Yeong Der Yao	Poster	1:00 PM 1:00 PM
10	605654	DU-10	Magnetic properties and microstructures of perpendicular (FePt/Ag) <sub>n</sub> film	Chun-Lin Ou	Poster	1:00 PM 1:00 PM
11	605212	DU-11	Properties modification of rapid-quenched NdFeB ribbon by electrodepositing nanometallic layer	Min Lin	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Modeling Motors  
 Session Abbreviation: DV  
 Client Session ID: 285  
 Session Type: Poster  
 Duration: May 6, 2009 1:00 PM -  
 May 6, 2009 4:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: David George Dorrell  
 Session Chair: Philippe Wendling  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? no

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605213	DV-01	Analysis of doubly salient memory motors using Preisach theory	Gong Yu	Poster	1:00 PM 1:00 PM
2	606061	DV-02	Design of the cage-bars for single phase line start permanent magnet synchronous motor considering the starting torque and magnetic saturation	Seung Joo Kim	Poster	1:00 PM 1:00 PM
3	606837	DV-03	Thermal analysis of high-speed SMC motor based on thermal network and 3-d FEA with rotational core loss included	Jianguo Zhu	Poster	1:00 PM 1:00 PM
4	606676	DV-04	A numerically efficient performance analysis of Thomson coil type actuator of an arc eliminator and its application to design optimization	Wei Li	Poster	1:00 PM 1:00 PM
5	606697	DV-05	Cogging torque calculation in finite element analysis of stator interior permanent magnet machine	Jianzhong Zhang	Poster	1:00 PM 1:00 PM
6	607126	DV-06	Nonlinear magnetic model of surface mounted PM machines incorporating saturation saliency	Yi Wang	No Preference	1:00 PM 1:00 PM
7	607403	DV-07	Analytical calculation of magnetic field in surface-inset permanent magnet motors	Linni Jian	Poster	1:00 PM 1:00 PM
8	607797	DV-08	Theoretical analysis and its applications of a PM synchronous motor with minimized cogging force	Jong Hyun Choi	Poster	1:00 PM 1:00 PM
9	607914	DV-09	Characteristics analysis & optimum design of anisotropy rotor SynRM using coupled FEM & RSM	Il Kyo Lee	Poster	1:00 PM 1:00 PM



10	607966	DV-10	Heat characteristics analysis of synchronous reluctance motor using FEM coupled electromagnetic field and thermal field	Young Hyun Kim	Poster	1:00 PM 1:00 PM
11	608364	DV-11	Multilevel optimization for surface mounted PM machine incorporating with FEM	Jian Guo Zhu	Poster	1:00 PM 1:00 PM
12	608406	DV-12	A proposal of a 5-axis active control type bearingless motor without a thrust rotor disk for wide-gap condition	Satoru Iwasaki	Poster	1:00 PM 1:00 PM

**Session Information**

Session Title: Symposium on New Materials for CPP-GMR Devices

Session Abbreviation: EA

Client Session ID: 290

Session Type: Oral

Duration: May 7, 2009 9:00 AM -  
May 7, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: William Butler

Session Location: Room 311-313

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	614155	EA-01	Enhancement of CPP-GMR by using spin-polarized ferromagnetic metals with high resistivity for future high-density magnetic read-heads	Keiichi Nagasaka	Invited	9:00 AM 9:30 AM
2	617380	EA-02	Materials for all Heusler alloy CPP GMR	Oleg Mryasov	Invited	9:30 AM 10:00 AM
3	616810	EA-03	Advanced ferromagnetic alloys and multilayer-structures for CPP-GMR magnetic recording read heads	Stefan Maat	Invited	10:00 AM 10:30 AM
4	617465	EA-04	CPP-GMR read head micro-magnetic and noise simulation	Yuchen Zhou	Invited	10:30 AM 11:00 AM
5	617113	EA-05	Development of Heusler materials and high $\Delta R/R$ in CPP-GMR	Takao Furubayashi	Invited	11:00 AM 11:30 AM
6	617160	EA-06	Finite element modeling of charge and spin-currents in CPP GMR structures	Bernard Dieny	Invited	11:30 AM 12:00 PM

**Session Information**

Session Title: Biomagnetic Applications (II)

Session Abbreviation: EB

Client Session ID: 295

Session Type: Oral

Duration: May 7, 2009 9:00 AM -  
May 7, 2009 11:30 AM

Session Number Prefix:

Session Hosts: Session Chair: Heinrich Hofmann

Session Location: Room 314

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607829	EB-01	Characterization of magnetic core-shell nanoparticles for biomagnetic applications by magnetorelaxometry	Frank Ludwig	Oral	9:00 AM 9:15 AM
2	608471	EB-02	Protein functionalized synthetic antiferromagnetic nanoparticles for biomedical applications	Aihua Fu	Oral	9:15 AM 9:30 AM
3	607672	EB-03	Biological synthesis and NSOM/ HRTEM characterization of cubo-octahedral nano-magnets	Manish Sharma	Oral	9:30 AM 9:45 AM
4	605227	EB-04	Changes in fluorescence lifetime and polarization via iron oxide nanoparticles: determination of iron loads in ferritin.	Oscar Cespedes	No Preference	9:45 AM 10:00 AM
5	605272	EB-05	Effects of radio frequency magnetic fields on ferritin	Oscar Cespedes	Oral	10:00 AM 10:15 AM
6	608439	EB-06	Preparation, characterization and in vitro release of magnetic solid lipid nanoparticles containing ibuprofen	Weilie Zhou	Oral	10:15 AM 10:30 AM
7	607921	EB-07	Magnetic microactuator for controlling nanoparticles in gene delivery applications	Eva Flick	Oral	10:30 AM 10:45 AM
8	607718	EB-08	Magnetoresistive detection of magnetic beads moving at high speed on microfluidic channels	Joana Loureiro	Oral	10:45 AM 11:00 AM
9	608453	EB-09	Multiplexed GMR biosensor arrays	Drew Hall	Oral	11:00 AM 11:15 AM
10	606946	EB-10	Tagging suspension-based biochemical assays using digital magnetic microtags	Thanos Mitrelias	Oral	11:15 AM 11:30 AM

### Session Information

Session Title: Energy Assisted Magnetic Recording  
 Session Abbreviation: EC  
 Client Session ID: 300  
 Session Type: Oral  
 Duration: May 7, 2009 9:00 AM -  
 May 7, 2009 12:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Ganping Ju  
 Session Location: Room 315  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608496	EC-01	Thermally-assisted magnetic recording experiments using a plasmonic near-field transducer with integrated waveguide	Barry Stipe	Oral	9:00 AM 9:15 AM
2	607738	EC-02	Opto-thermal analysis of novel heat assisted magnetic recording media based on surface plasmon enhancement	Dong-Soo Lim	Oral	9:15 AM 9:30 AM
3	608662	EC-03	Simulation of transducer heating in ridge waveguides for HAMR	James Bain	Oral	9:30 AM 9:45 AM
4	608545	EC-04	Optimal coupling of near-field light into magnetic recording media for HAMR	Rabee Ikkawi	Oral	9:45 AM 10:00 AM

5	607033	EC-05	Micromagnetic modeling study of thermal gradient effect in heat assisted magnetic recording (HAMR)	Adam Torabi	Oral	10:00 AM 10:15 AM
6	603299	EC-06	Thermally assisted magnetization writing : analytical results and simulations	Denise Hinzke	Oral	10:15 AM 10:30 AM
7	615842	EC-07	Experimental study on microwave-assisted magnetization reversal in patterned ferromagnetic thin films	Yukio Nozaki	Invited	10:30 AM 11:00 AM
8	608751	EC-08	Switchable STT circular ac field generator for microwave assisted magnetic recording	Jian-Gang Zhu	Oral	11:00 AM 11:15 AM
9	608251	EC-09	Exchange coupled bit patterned media under the influence of RF-field pulses	Muhammad Bashir	Oral	11:15 AM 11:30 AM
10	608074	EC-10	Observation of microwave-assisted magnetization reversal in Fe <sub>65</sub> Co <sub>35</sub> thin films through ferromagnetic resonance measurements	Corneliu Nistor	Oral	11:30 AM 11:45 AM
11	608428	EC-11	Microwave assisted magnetic reversal in Ni <sub>80</sub> Fe <sub>20</sub> nanoelements	Hans Nembach	Oral	11:45 AM 12:00 PM

### Session Information

Session Title: Spin Transfer Torque Phenomena (I)  
 Session Abbreviation: ED  
 Client Session ID: 305  
 Session Type: Oral  
 Duration: May 7, 2009 9:00 AM -  
 May 7, 2009 12:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Jordan A. Katine  
 Session Location: Room 306  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	617665	ED-01	Ultrafast time-domain switching studies of spin-torque nanopillars	Thomas Crawford	Invited	9:00 AM 9:30 AM
2	617124	ED-02	Spin-transfer-driven reversal in magnetic tunnel junctions: torques, dynamics, and thermal activation effects	Jonathan Sun	Invited	9:30 AM 10:00 AM
3	605221	ED-03	Spin-torque-induced switching and precession in fully-epitaxial Fe/MgO /Fe(001) magnetic tunnel junctions	Rie Matsumoto	Oral	10:00 AM 10:15 AM
4	607709	ED-04	Magnetic field- and spin transfer torque-induced ferromagnetic resonances for antiferromagnetically-coupled layers	Takeshi Seki	Oral	10:15 AM 10:30 AM
5	607141	ED-05	Effect of antiferromagnetic exchange coupling on current induced magnetization switching in MgO barrier MTJs with CoFeB based synthetic ferrimagnetic recording layer	Jun Hayakawa	Oral	10:30 AM 10:45 AM
6	604942	ED-06	Extrinsic current-induced field-like torques in MgO magnetic tunnel junctions	Thibaut Devolder	Oral	10:45 AM 11:00 AM
7	605961	ED-07	Spin pumping effects on spin torque induced magnetization switching in magnetic tunneling junctions	Xiaobin Wang	Oral	11:00 AM 11:15 AM

8	607208	ED-08	Unique spin torque transfer switching in magnetic tunnel junctions with composite free layer	Xiaofeng Yao	Oral	11:15 AM 11:30 AM
9	607986	ED-09	Effects of rf current on critical field for magnetization reversal in spin torque devices	Wenyu Chen	Oral	11:30 AM 11:45 AM
10	605054	ED-10	Measuring the non-adiabaticity of reversible current-induced vortex core displacements	Mathias Kläui	Oral	11:45 AM 12:00 PM

### Session Information

Session Title: Magnetic Nanowires, Clusters, and Nanoparticles (I)

Session Abbreviation: EE

Client Session ID: 310

Session Type: Oral

Duration: May 7, 2009 9:00 AM -  
May 7, 2009 11:30 AM

Session Number Prefix:

Session Hosts: Session Chair: Nicoleta Lupa

Session Location: Room 307

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607657	EE-01	Tailoring domain wall dynamics with uniaxial anisotropy in nanowires	Julian Dean	Oral	9:00 AM 9:15 AM
2	608320	EE-02	Probing magnetic configurations in Co/Cu multilayered nanowires*	Randy Dumas	Oral	9:15 AM 9:30 AM
3	601095	EE-03	Magnetization reversal of ferromagnetic nanowire arrays studied by angular FORC measurements	Fanny Béron	Oral	9:30 AM 9:45 AM
4	605393	EE-04	Domain transfer by heat-assisted coercivity reduction in perpendicular anisotropy magnetic nanowire stacks for 3d memory applications	Ozhan Ozatay	Oral	9:45 AM 10:00 AM
5	604764	EE-05	Near-field interaction between domain walls in adjacent permalloy nanowires	Liam O'Brien	Oral	10:00 AM 10:15 AM
6	607670	EE-06	Magnetization process in ferromagnetic nanowire arrays	Louis-Philippe Carignan	Oral	10:15 AM 10:30 AM
7	606826	EE-07	Tuning of the scattering parameters of magnetic nanowire arrays near antiresonance at photonic frequencies	Martha Pardavi-Horvath	Oral	10:30 AM 10:45 AM
8	607985	EE-08	Magnetotransport phenomena in [NiFe/Cu] magnetic multilayered nanowires	Horia Chiriac	Oral	10:45 AM 11:00 AM
9	607491	EE-09	Structural and magnetic properties of electrodeposited Co nanowire arrays	Anjan Barman	Oral	11:00 AM 11:15 AM
10	608059	EE-10	Phase transformation in silica-coated FePt nanoparticles	Levent Colak	Oral	11:15 AM 11:30 AM

### Session Information

Session Title: Magnetic Recording: Systems, Coding and Channel

Session Abbreviation: EF

Client Session ID: 315

<p>Session Type: Oral</p> <p>Duration: May 7, 2009 9:00 AM - May 7, 2009 11:45 AM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Zhejie Liu</p> <p>Session Location: Room 308</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605694	EF-01	A generalized data detection scheme using hyper-plane for magnetic recording channel with pattern-dependent noise	Seiichi Mita	Oral	9:00 AM 9:15 AM
2	602942	EF-02	Error correction coding with LDPC codes for a new class of patterned media storage	Xingcheng Liu	No Preference	9:15 AM 9:30 AM
3	597956	EF-03	A method for simultaneous position and timing error detection for bit patterned media	Hiroyuki Suzuki	Oral	9:30 AM 9:45 AM
4	605508	EF-04	Write-error correction in magnetic recording system using BPM	Yasuaki Nakamura	Oral	9:45 AM 10:00 AM
5	608656	EF-05	A new encoding and decoding system for Reed-Solomon codes	Hajime Matsui	Oral	10:00 AM 10:15 AM
6	601158	EF-06	On the characterization of write-equalized magnetic recording channels	Sedat OELCER	Oral	10:15 AM 10:30 AM
7	596628	EF-07	Amplitude and null position error signal generation: a timing recovery perspective	Aravind Nayak	Oral	10:30 AM 10:45 AM
8	606124	EF-08	Highly-parallel FPGA emulation for LDPC error floor characterization in perpendicular magnetic recording channels	Yu Cai	Oral	10:45 AM 11:00 AM
9	605720	EF-09	Performance of advanced data-detection schemes on BaFe tape media	Sedat Ölçer	Oral	11:00 AM 11:15 AM
10	607968	EF-10	Operating range optimization of a MEMS type slider with an integrated microactuator (SLIM) for second stage actuation in hard disc drives	Dragan Dinulovic	Oral	11:15 AM 11:30 AM
11	604498	EF-11	Millions of square inches (MSI) comparisons and implications for magnetic recording and solid state storage class memories	Robert Fontana	Oral	11:30 AM 11:45 AM

<p><b>Session Information</b></p> <p>Session Title: Permanent Magnetic Materials (II)</p> <p>Session Abbreviation: EG</p> <p>Client Session ID: 320</p> <p>Session Type: Oral</p> <p>Duration: May 7, 2009 9:00 AM - May 7, 2009 12:00 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: J.Ping Liu</p> <p>Session Location: Room 309</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607077	EG-01	Effects of small indium additions on sintered microcrystalline and hot-deformed nanocrystalline PrCo <sub>5</sub> magnets	Alexander Gabay	Oral	9:00 AM 9:15 AM
2	605567	EG-02	Hard magnetic Co-Pt-based nanotubes, produced via direct electroplating	Kristina Zuzek Rozman	Oral	9:15 AM 9:30 AM
3	605664	EG-03	Exchange-spring coupling in ferrite/Sm <sub>2</sub> Fe <sub>17</sub> N <sub>3</sub> explosive-consolidated composites: novel spring-exchange magnets with high resistivity	Nobuyoshi Imaoka	Oral	9:30 AM 9:45 AM
4	606898	EG-04	NdFeB/FeCo exchange spring thin film magnet with perpendicular magnetic anisotropy	Xiaoxi Liu	Oral	9:45 AM 10:00 AM
5	605013	EG-05	First-order-reversal-curve analysis of Pr-Fe-B-based exchange spring magnets	Frank Missell	Oral	10:00 AM 10:15 AM
6	602751	EG-06	Structure and magnetic properties of Nd-Fe-B/a-Fe nanocomposite thin films with perpendicular magnetic anisotropy*	Qi Yao	Oral	10:15 AM 10:30 AM
7	608041	EG-07	Anisotropic PrCo <sub>5</sub> nanoparticles by surfactant-assisted ball milling	Nilay Gunduz Akdogan	Oral	10:30 AM 10:45 AM
8	606962	EG-08	Effect of additional elements on the structural properties, magnetic characteristics and natural resonance frequency of strontium ferrite nanoparticles/ polymer composite	Ali Ghasemi	Oral	10:45 AM 11:00 AM
9	608566	EG-09	Effect of substrate and surface conditioning on magnetic properties and texture of CoPt hard bias films	Anup Roy	Oral	11:00 AM 11:15 AM
10	606494	EG-10	Amorphisation and crystallization behavior of melt-spun SmCo <sub>7</sub> (Cr <sub>3</sub> C <sub>2</sub> ) <sub>x</sub> alloys	Liya Li	Oral	11:15 AM 11:30 AM
11	605348	EG-11	The role of grain boundaries on the coercivity of NdFeB magnets	Gino Hrkac	Oral	11:30 AM 11:45 AM
12	608553	EG-12	Structure-property relationship of nanocrystalline Pr <sub>2</sub> Co <sub>14</sub> B-based hard magnetic film	Wenyong Zhang	Oral	11:45 AM 12:00 PM

### Session Information

Session Title: Transformers and Inductors  
 Session Abbreviation: EH  
 Client Session ID: 325  
 Session Type: Oral  
 Duration: May 7, 2009 9:00 AM -  
 May 7, 2009 12:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Don Gardner  
 Session Location: Room 310  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607425	EH-01	Fabrication and characterization of micro-scaled on-chip toroidal inductors	Huang-Ming Lee	Oral	9:00 AM 9:15 AM

2	607419	EH-02	Fabrication of toroidal microinductors for rf applications	Eckhard Quandt	Oral	9:15 AM 9:30 AM
3	606626	EH-03	Design of LTCC inductor for high frequency dc-dc converter	Laili Wang	Oral	9:30 AM 9:45 AM
4	606255	EH-04	High Q ferrite film inductor for on-chip power module	Seok Bae	Oral	9:45 AM 10:00 AM
5	606636	EH-05	A novel crossed traveling wave induction heating system and its FEM computation of Eddy current and temperature distributions	Siu-lau Ho	Oral	10:00 AM 10:15 AM
6	605649	EH-06	Iron loss calculation in a three-phase-laminated-core variable inductor based on reluctance network analysis	Kenji Nakamura	Oral	10:15 AM 10:30 AM
7	607185	EH-07	The magnetic components for high performance multilevel half-bridge inverter legs	Chris Chapelsky	No Preference	10:30 AM 10:45 AM
8	607492	EH-08	Vibration analysis of reactor driven by inverter power supply taking account of magnetostriction and electromagnetic force	Yanhui Gao	Oral	10:45 AM 11:00 AM
9	605492	EH-09	Modeling and testing of ethernet transformers	David Bowen	Oral	11:00 AM 11:15 AM
10	606333	EH-10	An efficient two-grid finite element method of 3d nonlinear magnetic field computation for the reduction of computing time	Ningning Chen	Oral	11:15 AM 11:30 AM
11	615701	EH-11	Significant electric field tuning of magnetic response in multiferroic heterostructures	Jaydip Das	Invited	11:30 AM 12:00 PM

### Session Information

Session Title: Magneto-optics, Superconductivity, and Interdisciplinary Topics

Session Abbreviation: EP

Client Session ID: 330

Session Type: Poster

Duration: May 7, 2009 8:00 AM -  
May 7, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Ichiro Takeuchi

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	600459	EP-01	Stability of magnetization reversal of pixels formed by ion-beam etching	Katsuhiro Iwasaki	Poster	8:00 AM 8:00 AM
2	601063	EP-02	Bismuth iron garnet (BIG) for magneto-optical sensors and applications	Thomas Wehllus	Oral	8:00 AM 8:00 AM
3	607682	EP-03	Low current driving of heat-assisted magneto-optic spatial light modulator with low Tc amorphous DyFe film	Jin Heo	Poster	8:00 AM 8:00 AM
4	607980	EP-04	Highly luminescent rare earth oxide magneto-optical films	Alexander Grishin	Oral	8:00 AM 8:00 AM
5	608052	EP-05	Magneto-optical response of gold-magnetite nanocomposite films	Kevin Stokes	Poster	8:00 AM 8:00 AM

6	605950	EP-06	Fiber-based magneto-optic Sagnac optical modulator	Sasha Kemmet	Poster	8:00 AM 8:00 AM
7	608547	EP-07	Magneto-optic spatial light phase modulators with one-dimensional magneto photonic crystals	Kwanghyun Chung	Poster	8:00 AM 8:00 AM
8	607121	EP-08	Intensification of magnetic Field in electromagnetic forming systems using anisotropic materials	Alireza Karimi	No Preference	8:00 AM 8:00 AM
9	608140	EP-09	Bistable current-pulse-excited magnetic reluctance microvalve simulation	Andrew Burke	No Preference	8:00 AM 8:00 AM
10	607461	EP-10	Dependence of magnetoresistance and superconducting transition temperature on relative orientation of magnetization easy axis to current direction in a Py/Nb/Py trilayer	Dong Ho Kim	No Preference	8:00 AM 8:00 AM
11	607615	EP-11	Core level X-ray photoelectron spectroscopy (XPS) of SmFeAsO	Veer Awana	Poster	8:00 AM 8:00 AM
12	607395	EP-12	Coexistence of ferromagnetism and superconductivity in Pb nanoparticles	Wen-Hsien Li	Oral	8:00 AM 8:00 AM
13	608317	EP-13	Magnetic field dependence of kinetic inductance in superconductors and its feasible applications	Subbaiah Chockalingam	Oral	8:00 AM 8:00 AM

### Session Information

Session Title: Exchange Bias (I)

Session Abbreviation: EQ

Client Session ID: 335

Session Type: Poster

Duration: May 7, 2009 8:00 AM -  
May 7, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Axel Hoffman

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605425	EQ-01	Temperature dependence of magnetization reversal in exchange biased Co/CoO nanoscale antidot arrays	Debashish Tripathy	Poster	8:00 AM 8:00 AM
2	608282	EQ-02	Exchange bias in bulk Ni <sub>50</sub> Mn <sub>35</sub> In <sub>15-x</sub> Si <sub>x</sub> Heusler alloys	Arjun Pathak	Poster	8:00 AM 8:00 AM
3	597615	EQ-03	Modulating positive exchange bias by ion-beam bombardment in CoFe/(Co,Fe)O bilayers	Ko-Wei Lin	Poster	8:00 AM 8:00 AM
4	606933	EQ-04	Structural and magnetic properties of FeRh/FePt bilayers	Nam Nguyen	Poster	8:00 AM 8:00 AM
5	607081	EQ-05	Effect of Cu impurities on K <sub>AF</sub> in IrMn <sub>1-x</sub> Cu <sub>x</sub> /CoFe exchange bias system	Nicholas Aley	Oral	8:00 AM 8:00 AM
6	607651	EQ-06	Magnetic anisotropy and magnetization reversal in the exchange-biased thin films	Hyeok-Cheol Choi	Poster	8:00 AM 8:00 AM
7	607855	EQ-07	Positive and negative exchange bias in IrMn/NiFe bilayers	Anandakumar Sarella	Poster	8:00 AM 8:00 AM



8	603632	EQ-08	Composition-dependent crystal structure and magnetism in nanocrystalline Co-rich alloy	Byong Sun Chun	Poster	8:00 AM 8:00 AM
9	606871	EQ-09	Antiferromagnet thickness dependence of training effect in exchange coupled CoFe/MnIr bilayers	Dong Young Kim	Poster	8:00 AM 8:00 AM
10	606695	EQ-10	Influence of the deposition sequence of antiferromagnetic and ferromagnetic layers in the IrMn/Co structures on the exchange bias	Nikolai Chechenin	Oral	8:00 AM 8:00 AM

### Session Information

Session Title: Spin Torque Oscillators (I)  
 Session Abbreviation: ER  
 Client Session ID: 340  
 Session Type: Poster  
 Duration: May 7, 2009 8:00 AM -  
 May 7, 2009 12:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: JianPing Wang  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607361	ER-01	Large output of microwave oscillations with narrow linewidth in magnetic nanocontact spin torque oscillator with spin-valve structure	Hiroaki Endo	Poster	8:00 AM 8:00 AM
2	607933	ER-02	Magnetic vortex dynamics in MgO based magnetic tunnel junctions	Benoit Georges	Oral	8:00 AM 8:00 AM
3	607459	ER-03	Phase noise and time resolved signals of vortex oscillators in point contacts	Thibaut Devolder	Oral	8:00 AM 8:00 AM
4	608543	ER-04	Magnetic vortex oscillators driven by spin-polarized out-of-plane dc current	Youn-Seok Choi	Oral	8:00 AM 8:00 AM
5	606041	ER-05	Effect of dipolar interaction on the current-induced microwave oscillation of a geometrically confined domain wall	Katsuyoshi Matsushita	Oral	8:00 AM 8:00 AM
6	608814	ER-06	Magnetoresistance and spin torque study of dual spin valve devices	Atif Aziz	Oral	8:00 AM 8:00 AM
7	605630	ER-07	Doublet sub-GHz peaks in the spectra of magnetization oscillations in spin-transfer nanocontacts	Michaela Kuepferling	Oral	8:00 AM 8:00 AM
8	606846	ER-08	Analytical theory of non-autonomous dynamics of a nonlinear spin-torque oscillator	Oleksandr Dmytriiev	Oral	8:00 AM 8:00 AM
9	604837	ER-09	Micromagnetic and analytical calculations of current-induced vortex oscillations in nanopillar spin valves	Alexey Khvalkovskiy	Oral	8:00 AM 8:00 AM
10	604387	ER-10	Temperature dependence of microwave nanoscillator linewidths driven by spin-polarized currents: a micromagnetic analysis	Mario Carpentieri	Poster	8:00 AM 8:00 AM

11	608341	ER-11	Micromagnetic analysis of the frequency modulation process in spin-torque nano-contact oscillators	Vito Puliafito	No Preference	8:00 AM 8:00 AM
12	607500	ER-12	Zero field vortex oscillators in point contacts	Thibaut Devolder	Oral	8:00 AM 8:00 AM
13	607996	ER-13	SAF layer oscillations of magnetic tunnel junctions	Gino Hrkac	No Preference	8:00 AM 8:00 AM
14	605644	ER-14	Microwave oscillations in CPP-GMR with CoFeAlSi	Masato Matsubara	Poster	8:00 AM 8:00 AM

### Session Information

Session Title: Magnetoresistive and Magnetocaloric Materials (I)  
 Session Abbreviation: ES  
 Client Session ID: 345  
 Session Type: Poster  
 Duration: May 7, 2009 8:00 AM -  
 May 7, 2009 12:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Josep Fontcuberta  
 Session Chair: Karl Sandeman  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605553	ES-01	Magnetotransport behavior and the phase diagram of Nd <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> manganites	Tserng Hsu	Poster	8:00 AM 8:00 AM
2	607075	ES-02	Optical reflectance at visible wavelengths: a probe for Jahn-Teller contribution to the magneto-optical signal of manganite thin films	Gervasi Herranz	Oral	8:00 AM 8:00 AM
3	606453	ES-03	Electron magnetic resonance study of magnetic order, paramagnetic magnetic correlations and spin dynamics in La- and Mn-deficient LaMnO <sub>3</sub> manganites	E. Rozenberg	Poster	8:00 AM 8:00 AM
4	608685	ES-04	Magnetic properties of La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> nanoplates	Debasis De	No Preference	8:00 AM 8:00 AM
5	607973	ES-05	Interface strain effect and doped atoms effect deformation CMR system	Chun Pin Wu	Poster	8:00 AM 8:00 AM
6	606681	ES-06	Microstructure of the strain-induced Fe/MgO/In <sub>x</sub> Ga <sub>1-x</sub> As heterostructure for spin-injection	Hyung Jun Kim	Poster	8:00 AM 8:00 AM
7	607145	ES-07	Epitaxial growth and magnetic properties of half-metallic Fe <sub>3</sub> O <sub>4</sub> on Si(100) using MgO buffer layer	Sameh Hassan	Oral	8:00 AM 8:00 AM
8	607418	ES-08	Preparation and characterization of full-Heusler Co <sub>2</sub> FeSi alloy thin films on amorphous insulator films	Kengo Hayashi	Poster	8:00 AM 8:00 AM
9	608248	ES-09	Optimization of a rotary-type magnetic refrigerator	Serdar Celik	Oral	8:00 AM 8:00 AM
10	606971	ES-10	Performance study of the room-temperature reciprocating magnetic refrigerator using an improved model	Dechang Zeng	Poster	8:00 AM 8:00 AM

11	607705	ES-11	Influence of the GaAs substrate on the magnetocaloric behaviour of epitaxial MnAs thin films grown by MOVPE	Massimo Solzi	Poster	8:00 AM 8:00 AM
12	608408	ES-12	Magnetocaloric effect in single crystal Nd <sub>2</sub> Co <sub>7</sub>	Maxim Ilyn	Poster	8:00 AM 8:00 AM
13	607885	ES-13	The effect of chemical distribution on the magnetocaloric effect of second- and first-order phase transitions	Joao Amaral	Oral	8:00 AM 8:00 AM

### Session Information

<p>Session Title: Magnetic Memory and Logic</p> <p>Session Abbreviation: ET</p> <p>Client Session ID: 350</p> <p>Session Type: Poster</p> <p>Duration: May 7, 2009 8:00 AM - May 7, 2009 12:00 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Dirk Meyners Session Chair: Mathias Klaui</p> <p>Session Location: Exhibit Hall B</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606115	ET-01	Nonvolatile delay flip-flop using magnetic tunnel junctions with current-induced magnetization switching architecture	Shuu'ichirou Yamamoto	Poster	8:00 AM 8:00 AM
2	606878	ET-02	Energy surface analysis and critical points of a symmetric synthetic antiferromagnet	Andrei-Valentin Plamada	Poster	8:00 AM 8:00 AM
3	607372	ET-03	Schwarz-Christoffel Transformation for the cladding conducting lines	Yu-Hsin Su	Poster	8:00 AM 8:00 AM
4	607293	ET-04	Annealing effects of spin-transfer MTJ with composite free layers	Shan-Yi Yang	Oral	8:00 AM 8:00 AM
5	605652	ET-05	Analysis of MTJ edge deformation influence on switching current distribution for next-generation high-speed embedded MRAMs	Yukoh Katoh	Oral	8:00 AM 8:00 AM
6	606576	ET-06	Demagnetizing fields in magnetic RAM	Richard Spitzer	Oral	8:00 AM 8:00 AM
7	607450	ET-07	Dependence of spin-transfer torque switching characteristics on process parameter of Ar flow rate	Keewon Kim	No Preference	8:00 AM 8:00 AM
8	606950	ET-08	Ultrathin perpendicular RE-TM films for the application of STT-RAM	Te-ho Wu	Poster	8:00 AM 8:00 AM
9	608164	ET-09	Velocity splitting of field driven domain walls in nanostrips under large transverse fields	Roland Mattheis	Oral	8:00 AM 8:00 AM
10	607411	ET-10	Effect of non-adiabatic damping constant on domain wall motion driven by pulse current in a magnetic nanowire	Hiroshi Murakami	Poster	8:00 AM 8:00 AM
11	602857	ET-11	Kinetic and static pinning of magnetic domain walls at notches in ferromagnetic nanowires	Sung-Min Ahn	Poster	8:00 AM 8:00 AM

12	607439	ET-12	Computer simulation of the current induced domain wall motion in nanowire with perpendicular anisotropy	Yoshinobu Nakatani	Poster	8:00 AM 8:00 AM
13	606108	ET-13	Direct magnetic imaging of domain wall manipulation in necked permalloy wires using XPEEM	Wen Zhang	Poster	8:00 AM 8:00 AM

**Session Information**

Session Title: Ferrites (II)

Session Abbreviation: EU

Client Session ID: 355

Session Type: Poster

Duration: May 7, 2009 8:00 AM -  
May 7, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Yang-Ki Hong

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607844	EU-01	Magnetoreactance studies in rare earth doped Ni ferrite	K. Kamala Bharathi	Poster	8:00 AM 8:00 AM
2	606116	EU-02	Magnetic behavior of NiFe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> nanocomposite hollow spheres	Chun-Rong Lin	Poster	8:00 AM 8:00 AM
3	607644	EU-03	Magnetic and structural properties of nanometric epitaxial CoFe <sub>2</sub> O <sub>4</sub> and NiFe <sub>2</sub> O <sub>4</sub> films: strain vs surface effects	Josep Fontcuberta	Oral	8:00 AM 8:00 AM
4	607310	EU-04	Temperature dependence of magnetic properties of CoAl <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> for magnetostrictive sensor and actuator applications	Naresh Ranvah	Poster	8:00 AM 8:00 AM
5	607299	EU-05	Improvement of high-frequency characteristics of Co <sub>2</sub> Z-type hexaferrite by addition of rare earth	Chunhong Mu	No Preference	8:00 AM 8:00 AM
6	608056	EU-06	The magnetization and magneto-impedance properties of NiZn-ferrites and NdFeB hard/soft magnetic composites	Chao-Ming Fu	No Preference	8:00 AM 8:00 AM
7	608575	EU-07	Local spin structure of spinel Cd <sub>0.9</sub> Zn <sub>0.1</sub> Fe <sub>2</sub> O <sub>4</sub> investigated by external magnetic field Mössbauer spectrometry	Woochul Kim	Poster	8:00 AM 8:00 AM
8	607953	EU-08	Origin of the double-triangle hysteresis loops in ErFeO <sub>3</sub> near the low temperature erbium ordering transition.	Lyudmyla Tsybal	Poster	8:00 AM 8:00 AM
9	606045	EU-09	Structural and magnetic properties of electrospun multiferroic BiFeO <sub>3</sub> nanofiber	Joong-Hee Nam	Poster	8:00 AM 8:00 AM
10	607667	EU-10	Multiferroic properties of hexagonal YbMnO <sub>3</sub> thin films	Tai-Chun Han	Poster	8:00 AM 8:00 AM
11	607665	EU-11	The structural transition and magnetic properties of lithium deintercalation in LiFePO <sub>4</sub>	In Kyu Lee	Poster	8:00 AM 8:00 AM
12	608581	EU-12	Effect of compressive stress in thickness direction on magnetic properties of electrical steel sheet	Daisuke Miyagi	Poster	8:00 AM 8:00 AM

Session Information						
Session Title: Motor Design (I)						
Session Abbreviation: EV						
Client Session ID: 360						
Session Type: Poster						
Duration: May 7, 2009 8:00 AM - May 7, 2009 12:00 PM						
Session Number Prefix:						
Session Hosts: Session Chair: Jianguo Zhu Session Chair: Thomas Reichert						
Session Location: Exhibit Hall B						
Display individual abstract times in IP? no						

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605068	EV-01	Design of doubly salient permanent magnet motors with minimum torque ripple	Gong Yu	Poster	8:00 AM 8:00 AM
2	606169	EV-02	Magnetic field and thrust analysis of the U-channel air-cored permanent magnet linear synchronous motor	Xiao Liu	Poster	8:00 AM 8:00 AM
3	606389	EV-03	Cogging torque in flux-switching permanent magnet machines	Z. Q. Zhu	Poster	8:00 AM 8:00 AM
4	606615	EV-04	A study on optimal pole design of spoke type IPMSM with concentrated winding for reducing the torque ripple by experimental design method.	Kyu-yun Hwang	Poster	8:00 AM 8:00 AM
5	606680	EV-05	Effects of magnetic saturation on spindle motor characteristics	Jaenam Bae	Poster	8:00 AM 8:00 AM
6	607031	EV-06	Design and analysis of tubular linear PM generator	Qinfen Lu	Poster	8:00 AM 8:00 AM
7	607177	EV-07	Assessments of magnetic cross-coupling impacts on interior permanent magnet machine controls for electric vehicles	Cheng-Tsung Liu	Poster	8:00 AM 8:00 AM
8	607238	EV-08	An improved AC standstill inductance test method for interior PM synchronous motor considering current vector variation	Tao Sun	Poster	8:00 AM 8:00 AM
9	607397	EV-09	Design and control method of moving-permanent magnet type linear synchronous machine for high thrust and smooth speed performance in transportation application	Ji-Hwan Choi	Poster	8:00 AM 8:00 AM
10	607676	EV-10	A elicitation of thrust coefficient for permanent magnet linear synchronous motor by experimental design method	Se-ho Pyo	Poster	8:00 AM 8:00 AM
11	608237	EV-11	Design and analysis of an axial flux synchronous motor with ring permanent magnets by using analytical method	Peter Vrtič	No Preference	8:00 AM 8:00 AM
12	608635	EV-12	Torque ripple improvement for interior permanent magnet synchronous motor considering parameters with magnetic saturation	Hyung Bin Ihm	Poster	8:00 AM 8:00 AM

Session Information						
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<p>Session Title: Head-Media Interface (II)</p> <p>Session Abbreviation: EW</p> <p>Client Session ID: 365</p> <p>Session Type: Poster</p> <p>Duration: May 7, 2009 8:00 AM - May 7, 2009 12:00 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Bruno Marchon</p> <p>Session Location: Exhibit Hall B</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	600478	EW-01	Solvent effects on friction properties of monolayer perfluoropolyether films coated on magnetic disk surfaces	Hedong Zhang	No Preference	8:00 AM 8:00 AM
2	605542	EW-02	Electric field assisted dip coating process of ultra-thin PFPE lubricant film for magnetic disks	Hiroshi Tani	Poster	8:00 AM 8:00 AM
3	606204	EW-03	Wear-corrosion properties of DLC films with different source gas flows and the CN layer of media	An-Hung Tan	Poster	8:00 AM 8:00 AM
4	604931	EW-04	Characterization of head-disk interaction induced lubricant bonding	Lei Zhu	No Preference	8:00 AM 8:00 AM
5	608227	EW-05	Spinning effects on the spreading profiles in PFPE films	Dehee Kim	Poster	8:00 AM 8:00 AM
6	608516	EW-06	The effect of molecular structure on the static and dynamic responses of binary mixture perfluoropolyether lubricant films	Pil Seung Chung	Poster	8:00 AM 8:00 AM
7	605377	EW-07	Some system level considerations for ultra-low FH head testing and drive integration	Zhihao (George) Li	Poster	8:00 AM 8:00 AM

<p><b>Session Information</b></p> <p>Session Title: Symposium on Two-Dimensional Magnetic Recording</p> <p>Session Abbreviation: FA</p> <p>Client Session ID: 370</p> <p>Session Type: Oral</p> <p>Duration: May 7, 2009 2:00 PM - May 7, 2009 5:00 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Roger Wood</p> <p>Session Location: Room 311-313</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	616550	FA-01	Future options for HDD storage <sup>a</sup>	Yoshihiro Shiroishi	Invited	2:00 PM 2:30 PM
2	617466	FA-02	High density data-storage using shingle-write	Ikuya Tagawa	Invited	2:30 PM 3:00 PM

3	616340	FA-03	Shingled magnetic recording for 2 Tbit/in <sup>2</sup>	Simon Greaves	Invited	3:00 PM 3:30 PM
4	617501	FA-04	Two-dimensional magnetic recording	Aleksandar Kavcic	Invited	3:30 PM 4:00 PM
5	607195	FA-05	TDMR platform simulations and experiments	Kheong Sann Chan	Oral	4:00 PM 4:30 PM
6	617093	FA-06	Directions for shingled-write and TDMR system architectures: synergies with solid-state disks	Garth Gibson	Invited	4:30 PM 5:00 PM

### Session Information

<p>Session Title: Magnetoresistive and Magnetocaloric Materials (II)</p> <p>Session Abbreviation: FB</p> <p>Client Session ID: 375</p> <p>Session Type: Oral</p> <p>Duration: May 7, 2009 2:00 PM - May 7, 2009 5:00 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Jian Shen Session Chair: Julia Lyubina</p> <p>Session Location: Room 314</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	616101	FB-01	Emergent phenomena in manganites under spatial confinement	Jian Shen	Invited	2:00 PM 2:30 PM
2	607895	FB-02	Interfacial magnetic phase separation in SrTiO <sub>3</sub> (001)/La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3</sub>	Chris Leighton	Oral	2:30 PM 2:45 PM
3	607591	FB-03	Epitaxial strain effects on interfaces of ferromagnetic manganites	Josep Fontcuberta	Oral	2:45 PM 3:00 PM
4	607207	FB-04	The properties and structure relationship of half metallic magnetic materials on GaAs	Sameh Hassan	Oral	3:00 PM 3:15 PM
5	606820	FB-05	Microstructure, magnetic and transport properties of Co-ferrite thin films	Y. Takahashi	Oral	3:15 PM 3:30 PM
6	607092	FB-06	Magnetocaloric and transverse susceptibility studies of charge-ordered Nd <sub>0.25</sub> Pr <sub>0.25</sub> Sr <sub>0.5</sub> MnO <sub>3</sub>	Manh-Huong Phan	Oral	3:30 PM 3:45 PM
7	607586	FB-07	Field dependence of magnetic entropy change: a criterion for distinguishing first- and second-order phase transitions	Julia Lyubina	Oral	3:45 PM 4:00 PM
8	606492	FB-08	Magnetocaloric effect in RFe <sub>11</sub> Ti (R=Gd,Tb,Ho) intermetallic compounds: from single crystals to nanocrystalline alloys.	Konstantin Skokov	Oral	4:00 PM 4:15 PM
9	608206	FB-09	Magnetic and structural changes in Fe-substituted Gd <sub>5</sub> Si <sub>2</sub> Ge <sub>2</sub> -based alloys	Benjamin Podmiljsak	Oral	4:15 PM 4:30 PM
10	607555	FB-10	Anomalous behaviour in electrical transport properties in single crystal Gd <sub>5</sub> Si <sub>1.8</sub> Ge <sub>2.2</sub> and polycrystalline Gd <sub>5</sub> Si <sub>2.09</sub> Ge <sub>1.91</sub>	Ravi Hadimani	Oral	4:30 PM 4:45 PM
11	608088	FB-11	Insights on the magnetism of Tb <sub>5</sub> Ge <sub>4</sub>	Andre Pereira	Oral	4:45 PM 5:00 PM

Session Information
<p>Session Title: Magnetic non-Recording Sensors            Session Abbreviation: FC            Client Session ID: 380            Session Type: Oral            Duration: May 7, 2009 2:00 PM -            May 7, 2009 5:00 PM            Session Number Prefix:            Session Hosts: Session Chair: Manuel Vazquez            Session Location: Room 315            Display individual abstract times in IP? yes</p>

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	600795	FC-01	Remote temperature sensor based on amorphous metal strips	Daichi Azuma	Oral	2:00 PM 2:15 PM
2	605060	FC-02	A new type of current sensor based on inverse magnetostriction for large current detection.	Ichiro Sasada	Oral	2:15 PM 2:30 PM
3	605709	FC-03	Micron-sized InSb Hall sensors	Olga Kazakova	Oral	2:30 PM 2:45 PM
4	605895	FC-04	High Tc SQUID detection system for metallic contaminant in lithium ion battery	Saburo Tanaka	Oral	2:45 PM 3:00 PM
5	606746	FC-05	Using the crossfield error in AMR	Pavel Ripka	No Preference	3:00 PM 3:15 PM
6	606993	FC-06	Wireless passive magneto/acoustic strain sensors	Dieter Suess	Oral	3:15 PM 3:30 PM
7	607661	FC-07	Non-contact temperature sensor based on inverse magnetostriction	Claas Thede	Oral	3:30 PM 3:45 PM
8	607836	FC-08	Achieving the benefits of the MEMS flux concentrator: a low cost, highly sensitive magnetometer	Alan Edelstein	Oral	3:45 PM 4:00 PM
9	607877	FC-09	Optimization of multilayer structures for high field sensitivity biochip sensor based on planar Hall effect	Hung Tran Quang	Oral	4:00 PM 4:15 PM
10	608015	FC-10	Magnetoelastic carbon fiber micro strain sensor	Alexander Belski	Oral	4:15 PM 4:30 PM
11	608407	FC-11	Noise study of magnetic tunnel junction sensors with magnetic flux concentrators	Sy-Hwang Liou	Oral	4:30 PM 4:45 PM
12	608424	FC-12	Magnetoelastic/piezoelectric laminated structures for tunable remote contactless magnetic sensing and energy harvesting	Peter Finkel	Oral	4:45 PM 5:00 PM

Session Information
<p>Session Title: Spin Transfer Torque Phenomena (II)            Session Abbreviation: FD            Client Session ID: 385            Session Type: Oral            Duration: May 7, 2009 2:00 PM -            May 7, 2009 5:00 PM            Session Number Prefix:            Session Hosts: Session Chair: Ilya Krivorotov</p>



Session Location: Room 306

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	616881	FD-01	Spin transfer switching in magnetic tunnel junctions : time-resolved observation and related eigenexcitations	Thibaut Devolder	Invited	2:00 PM 2:30 PM
2	616595	FD-02	Spin polarized transport and dynamics in magnetic tunneling structures	John Xiao	Invited	2:30 PM 3:00 PM
3	608148	FD-03	Spin transfer induced dynamics of magnetic vortices in single and multi-nanocontact systems	Antonio Ruotolo	Oral	3:00 PM 3:15 PM
4	605422	FD-04	Time-resolved x-ray microscopy and micromagnetic simulations of magnetic antivortex dynamics	Markus Bolte	Oral	3:15 PM 3:30 PM
5	605456	FD-05	Domain wall induced telegraph noise switching driven by spin transfer in nanopillars with perpendicular anisotropy	Julien Cuchiarra	Oral	3:30 PM 3:45 PM
6	608746	FD-06	Hysteresis and bistability in the injection locking of spin-transfer nano-oscillators	Claudio Serpico	Oral	3:45 PM 4:00 PM
7	604938	FD-07	Magnetic-field-driven ferromagnetic resonance in spin-transfer devices	Roberto Bonin	Oral	4:00 PM 4:15 PM
8	605326	FD-08	Diffusive Spin-Transfer; derivation of the critical current due to the spin accumulation only	Jean-Eric Wegrowe	Oral	4:15 PM 4:30 PM
9	607079	FD-09	Spin-polarized current switching of Co/Cu/Py Pac-man type II	Andrew Lyle	Oral	4:30 PM 4:45 PM
10	606506	FD-10	Non-adiabatic spin transfer torque in high anisotropy magnetic nanowires with narrow domain walls	Olivier Boulle	Oral	4:45 PM 5:00 PM

**Session Information**

Session Title: Microwave and Millimeter Wave Devices

Session Abbreviation: FE

Client Session ID: 390

Session Type: Oral

Duration: May 7, 2009 2:00 PM -  
May 7, 2009 5:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Mingzhong Wu

Session Location: Room 307

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	616458	FE-01	Nonlinear microwave signal processing based on spin waves in dielectric and metallic magnetic films	Andrei Slavin	Invited	2:00 PM 2:30 PM
2	606329	FE-02	Miniaturized planar antennas and filters on magnetoelectric substrates with ferrite films loading	Nian Sun	Oral	2:30 PM 2:45 PM

3	606282	FE-03	A tunable X-band band-pass filter using YIG-GGG layer on RT-Duroid substrate	Chen Tsai	Oral	2:45 PM 3:00 PM
4	617277	FE-04	High-frequency microwave devices using ferromagnetic structures	Zbigniew Celinski	Invited	3:00 PM 3:30 PM
5	606507	FE-05	Probing of a parametrically driven magnon gas with a non-resonant traveling spin wave	Alexander Serga	Oral	3:30 PM 3:45 PM
6	607850	FE-06	Reverse Doppler effect in backward spin waves scattered on acoustic waves	Andrii Chumak	Oral	3:45 PM 4:00 PM
7	606251	FE-07	Co <sub>2</sub> Z hexaferrite T-DMB antenna for mobile phone	Seok Bae	Oral	4:00 PM 4:15 PM
8	607089	FE-08	Field-induced transition from parallel to perpendicular parametric pumping for a microstrip transducer	Timo Neumann	Oral	4:15 PM 4:30 PM
9	605761	FE-09	Nonreciprocal phase-shift composite right/left handed transmission lines	Tetsuya Ueda	Oral	4:30 PM 4:45 PM
10	605663	FE-10	Left-handed characteristics of ferrite microstrip line magnetized to wave propagation	Makoto Tsutsumi	Oral	4:45 PM 5:00 PM

### Session Information

Session Title: Magnetic Tunnel Junctions and Spin Injection

Session Abbreviation: FF

Client Session ID: 395

Session Type: Oral

Duration: May 7, 2009 2:00 PM -  
May 7, 2009 5:00 PM

Session Number Prefix:

Session Hosts: Session Chair: John Xiao

Session Location: Room 308

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606030	FF-01	Perpendicular magnetic tunnel junctions with CoFe/Pd multilayer electrodes and MgO barrier	JiHo Park	Oral	2:00 PM 2:15 PM
2	606895	FF-02	Influence of crystallographic orientation of FeCo spin polarization enhancement layer on the magnetization coupling with RE-TM alloy films in perpendicular MTJ	Shigeki Nakagawa	Oral	2:15 PM 2:30 PM
3	607169	FF-03	X-ray absorption and X-ray magnetic circular dichroism studies of the interfacial structure and ferromagnetic properties in Co <sub>2</sub> FeAl <sub>0.5</sub> Si <sub>0.5</sub> magnetic tunnel junctions	Sameh Hassan	Oral	2:30 PM 2:45 PM
4	607812	FF-04	Voltage induced magnetic anisotropy change in ultrathin Au/bcc-Fe/MgO (001) junctions	Yoshishige Suzuki	Oral	2:45 PM 3:00 PM
5	605565	FF-05	Magnetoresistance properties of planar-type tunnel junctions with ferromagnetic nanogap system fabricated by electromigration method	Yusuke Tomoda	No Preference	3:00 PM 3:15 PM

6	607642	FF-06	Electrical phase transitions as a function of temperature, applied voltage and magnetic field in arrays of CoFe nanoparticles separated by organic tunnel barriers.	Julian Carrey	Oral	3:15 PM 3:30 PM
7	607775	FF-07	The critical role of the barrier thickness in spin filter tunneling	Casey Miller	Oral	3:30 PM 3:45 PM
8	608132	FF-08	Spin-tunnel contacts to silicon using low-work-function CoGd alloys	Ram Patel	Oral	3:45 PM 4:00 PM
9	608399	FF-09	Fermi level pinning/depinning and Schottky barrier height modulation in CoFeB/MgO/Ge structure	Donkoun Lee	Oral	4:00 PM 4:15 PM
10	598943	FF-10	Electrical characterization for spin injection and detection in Si using ferromagnet/tunnel barrier electrodes	Takao Marukame	Oral	4:15 PM 4:30 PM
11	607086	FF-11	Enhancement of the spin accumulation at the interface between a spin-polarized tunnel junction and a semiconductor	Michael Tran	Oral	4:30 PM 4:45 PM
12	605545	FF-12	Electric-field-induced spin injection enhancement at a ferromagnet-semiconductor interface	Hyun Cheol Koo	Oral	4:45 PM 5:00 PM

### Session Information

Session Title: Exchange Bias (II)

Session Abbreviation: FG

Client Session ID: 400

Session Type: Oral

Duration: May 7, 2009 2:00 PM -  
May 7, 2009 4:30 PM

Session Number Prefix:

Session Hosts: Session Chair: Jeffrey McCord

Session Location: Room 309

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607417	FG-01	Hysteretic exchange bias supplied by MnIr layers studied by network analyser ferromagnetic resonance	Thibaut Devolder	Oral	2:00 PM 2:15 PM
2	608198	FG-02	Atomic origin of exchange bias in core-shell nanoparticles	Richard Evans	Oral	2:15 PM 2:30 PM
3	599970	FG-03	Tuning of anisotropy in IrMn/CoFe exchange bias systems	Nicholas Aley	Oral	2:30 PM 2:45 PM
4	607546	FG-04	Reversal mechanism of exchange-biased CoFeB/IrMn Bi-layers observed by Lorentz electron microscopy	Andras Kovacs	Oral	2:45 PM 3:00 PM
5	607585	FG-05	Spin dynamics in Py/NiO : experimental and theoretical approach	Chantal Le Graët	Oral	3:00 PM 3:15 PM
6	605775	FG-06	Systematic study for magnetization dependence of exchange anisotropy strength in Mn-Ir/FM (FM = Fe-Co, Co-Ni, Ni-Fe) bilayer system	Masakiyo Tsunoda	Oral	3:15 PM 3:30 PM
7	607097	FG-07	Exchange bias in $L1_0$ (111) FePt-based all-ferromagnetic spin valves	Chaolin Zha	Oral	3:30 PM 3:45 PM

8	607366	FG-08	Thermally-activated relaxation of IrMn interfacial spins in epitaxial (002) Ir <sub>20</sub> Mn <sub>80</sub> /Co <sub>50</sub> Fe <sub>50</sub> exchange-coupled bilayers	Hsin-Hung Huang	Oral	3:45 PM 4:00 PM
9	606046	FG-09	Correlation between the degradation of perpendicular anisotropy and the double hysteresis behavior in [Pd/Co] <sub>n</sub> /FeMn exchange biased thin films	Howan Joo	Oral	4:00 PM 4:15 PM
10	608224	FG-10	Surface anisotropy as a driving force for exchange bias behavior in magnetite nanoparticles	Johans Restrepo	Oral	4:15 PM 4:30 PM

### Session Information

<p>Session Title: Motors and Actuators (I)</p> <p>Session Abbreviation: FH</p> <p>Client Session ID: 405</p> <p>Session Type: Oral</p> <p>Duration: May 7, 2009 2:00 PM - May 7, 2009 4:45 PM</p> <p>Session Number Prefix:</p> <p>Session Hosts: Session Chair: Mi-Ching Tsai</p> <p>Session Location: Room 310</p> <p>Display individual abstract times in IP? yes</p>
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Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	608233	FH-01	Method for evaluating eddy current loss of permanent magnet in PM motor driven by inverter power supply using coupled 2D and 3D finite element analyses	Takashi Okitsu	Oral	2:00 PM 2:15 PM
2	607842	FH-02	Development of a magnetic-gear permanent-magnet brushless motor	Li-Li Wang	Oral	2:15 PM 2:30 PM
3	607168	FH-03	Design and analysis of a claw pole PM motor with molded SMC core	Youguang Guo	No Preference	2:30 PM 2:45 PM
4	608577	FH-04	Study of magnetization distribution in interpolar transition areas and its influence on performances of permanent magnet motors	Zhejie Liu	No Preference	2:45 PM 3:00 PM
5	606122	FH-05	Unbalanced magnet pull in large brushless rare-earth permanent magnet motors with rotor eccentricity	David Dorrell	No Preference	3:00 PM 3:15 PM
6	607424	FH-06	Fault diagnosis of induction motor using analysis of stator current	Jungho Shin	Oral	3:15 PM 3:30 PM
7	605838	FH-07	A study of three dimensional excitation field in a hybrid excitation synchronous generator	Fu Xinghe	Oral	3:30 PM 3:45 PM
8	606044	FH-08	Miniature electromagnetic XY stage with vibration resistance	Kyoung Il Lee	No Preference	3:45 PM 4:00 PM
9	607906	FH-09	Novel moving coil tubular actuator with double sided PM array	Koen Meessen	Oral	4:00 PM 4:15 PM
10	608119	FH-10	Magnetic navigation system of rotating saddle and Maxwell coils for three-dimensional manipulation of a micro-robot in human blood vessel	Seungmun Jeon	Oral	4:15 PM 4:30 PM

11	607482	FH-11	Coupled analysis method of electromagnetic-structure acoustic for flat panel speaker driven by giant magnetostrictive material based actuator using finite element method	Byungjin Yoo	Oral	4:30 PM 4:45 PM
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**Session Information**

Session Title: Magnetic Microscopy and Characterization (II)  
 Session Abbreviation: FP  
 Client Session ID: 410  
 Session Type: Poster  
 Duration: May 7, 2009 1:00 PM -  
 May 7, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Dong-Hyun Kim  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606819	FP-01	Investigation of metallic/oxide interfaces in Pt/Co/AlO <sub>x</sub> trilayers by hard X-Ray reflectivity	Luc Ortega	Poster	1:00 PM 1:00 PM
2	608127	FP-02	Flux distribution at the cross-section of stacked nanostructured magnetic ribbon	Jian Zhu	Poster	1:00 PM 1:00 PM
3	605012	FP-03	Soft x-ray imaging of non-linear vortex core dynamics in permalloy squares	Brooke Mesler	Poster	1:00 PM 1:00 PM
4	603409	FP-04	Temperature dependence of domain-wall creep in Pt/CoFe/Pt films	Junyeon Kim	Poster	1:00 PM 1:00 PM
5	605557	FP-05	Magnetic shape anisotropy of ferromagnetic permalloy nanowires	Kyoung-Woong Moon	Poster	1:00 PM 1:00 PM
6	606182	FP-06	Bench-top time-resolved magneto-optical Kerr magnetometer	Anjan Barman	Poster	1:00 PM 1:00 PM
7	608218	FP-07	Magneto-optical observation of magnetic field distribution of soft magnetic materials	Jian Zhu	Poster	1:00 PM 1:00 PM

**Session Information**

Session Title: Eddy Currents and Losses in Motors  
 Session Abbreviation: FQ  
 Client Session ID: 415  
 Session Type: Poster  
 Duration: May 7, 2009 1:00 PM -  
 May 7, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Elena A. Lomonova  
 Session Chair: Vincent G. Mazauric  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? no

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	604740	FQ-01	Effect of magnetostriction anisotropy in non-oriented electrical steels on deformation of induction motor cores	Sakda Somkun	No Preference	1:00 PM 1:00 PM
2	605267	FQ-02	Transverse edge effect of a linear eddy current brake with a solid steel secondary	Yasuaki Sakamoto	Poster	1:00 PM 1:00 PM
3	605350	FQ-03	Proximity losses study in a high speed flux switching permanent magnet machine	Z. Q. Zhu	Poster	1:00 PM 1:00 PM
4	606840	FQ-04	Analysis and solution on squeak noise of small permanent magnetic dc brush motors in variable speed applications	Siu-lau Ho	Poster	1:00 PM 1:00 PM
5	606932	FQ-05	Design, fabrication and testing of a micro axial reluctance motor integrated with Eddy current sensor	Da-Chen Pang	No Preference	1:00 PM 1:00 PM
6	607503	FQ-06	Effect of eddy current loss reduction by segmentation of magnets in synchronous motors: difference between interior and surface type	Katsumi Yamazaki	No Preference	1:00 PM 1:00 PM
7	607330	FQ-07	Optimum design of copper rotor for premium high efficiency induction motor	Pil Wan Han	Poster	1:00 PM 1:00 PM
8	607368	FQ-08	Analysis on the characteristics of the high speed permanent magnet synchronous machines with diametrically magnetized rotors considering the electromagnetic losses according to the magnetic circuit construction conditions.	Yu-Seop Park	Poster	1:00 PM 1:00 PM
9	607379	FQ-09	An improved core loss calculation based on magnetic field analysis in stator core of permanent magnet machines considering the time harmonics under load conditions	Kyoung-jin Ko	Poster	1:00 PM 1:00 PM
10	608063	FQ-10	Analysis on Eddy current losses for cylindrical linear oscillatory actuator with Halbach array mover according to driving method	Hyun-Kyu Kim	Poster	1:00 PM 1:00 PM
11	608229	FQ-11	Magnetic suspension characteristics of a two-unit outer rotor type bearingless motor with consequent-pole permanent magnet structure	Takashi Kono	Poster	1:00 PM 1:00 PM
12	608378	FQ-12	Modeling for iron loss prediction by equivalent circuit of permanent magnet synchronous motor	Sung-II Kim	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Ab-Initio and First Principles Calculations (II)

Session Abbreviation: FR

Client Session ID: 420

Session Type: Poster

Duration: May 7, 2009 1:00 PM -  
May 7, 2009 5:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Xiangrong Wang

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607080	FR-01	Hybrid RBF collocation methods for moving conductor Eddy current problems	Yong Zhang	Poster	1:00 PM 1:00 PM
2	607211	FR-02	A Novel Superposition RBF Collocation Method To Solve Moving Conductor Eddy Current Problem	Guangyuan Yang	Poster	1:00 PM 1:00 PM
3	607505	FR-03	Bayesian inversion method and its information determination for the estimation of particle size distribution in ferrofluids	Youguang Guo	Poster	1:00 PM 1:00 PM
4	607595	FR-04	Dynamics simulation of magnetic nanoparticles system using finite element field model and level set method	Young Sun Kim	Poster	1:00 PM 1:00 PM
5	607905	FR-05	Novel Monte Carlo study of deposited magnetic nanoparticles	László Balogh	Poster	1:00 PM 1:00 PM
6	608114	FR-06	Efficient force analysis in CAD-based simulations	Zoran Andjelic	Poster	1:00 PM 1:00 PM
7	608526	FR-07	The electronic structure and magnetism of transition metal chains between graphene sheets	Jae Il Lee	Poster	1:00 PM 1:00 PM
8	600754	FR-08	Dynamic Jahn-Teller effect in the near-infrared spectra of Fe <sup>2+</sup> ions in III-V semimagnetic semiconductors InP and GaP	Yi-Yang Zhou	Poster	1:00 PM 1:00 PM
9	604218	FR-09	First-principles calculation of magnetic moment and crystal field parameter near surfaces of Nd <sub>2</sub> Fe <sub>14</sub> B	Hiroshi Moriya	Poster	1:00 PM 1:00 PM
10	605635	FR-10	Electronic structure and magnetic properties of spinel LiCr <sub>2</sub> O <sub>4</sub> : A GGA+U study	Xu Zuo	Poster	1:00 PM 1:00 PM
11	606152	FR-11	Exchange Interactions in Gd <sub>4</sub> Bi <sub>3</sub> and Gd from first-principles calculation	Xubo Liu	Poster	1:00 PM 1:00 PM
12	606730	FR-12	Improved sequential optimization method for high dimensional electromagnetic optimization problems	Youguang Guo	Poster	1:00 PM 1:00 PM
13	606831	FR-13	Oscillatory behavior of spin current in a 2DEG square sample with a central defect	Ivo Klik	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Fundamental Properties with Relevance to Applications

Session Abbreviation: FS

Client Session ID: 425

Session Type: Poster

Duration: May 7, 2009 1:00 PM -  
May 7, 2009 5:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Shu-Fan Cheng

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	599997	FS-01	Spatially resolved magnetic hysteresis loops on single nanostructures	Sebastian Wedekind	Poster	1:00 PM 1:00 PM
2	607634	FS-02	Inter-comparison Of TCR (temperature coefficient of resistance) in silver doped La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> and La <sub>0.7</sub> Ca <sub>0.2</sub> Ba <sub>0.1</sub> MnO <sub>3</sub>	Rahul Tripathi	Poster	1:00 PM 1:00 PM
3	606431	FS-03	Disappearance of antiferromagnetism and extended ferromagnetism in nanoparticles of Pr <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub>	Subray Bhat	Oral	1:00 PM 1:00 PM
4	606678	FS-04	Direct observation of Barkhausen avalanches in Fe thin films	Hun-Sung Lee	Poster	1:00 PM 1:00 PM
5	604697	FS-05	Variable fractal dimensions of magnetic domain wall in CoFe/Pt multilayer with changing the number of bilayers	Kang-soo Lee	Poster	1:00 PM 1:00 PM
6	607638	FS-06	Mixed exchange interactions: a study of Cr doped La <sub>0.67</sub> Ca <sub>0.33</sub> Mn <sub>1-x</sub> Cr <sub>x</sub> O <sub>3</sub> (0 ≤ x ≤ 1)	Neeraj Kumar	Poster	1:00 PM 1:00 PM
7	607997	FS-07	First- principles calculation and experimental investigations on full-Heusler alloy Co <sub>2</sub> FeGe	K. Ramesh Kumar	Poster	1:00 PM 1:00 PM
8	608260	FS-08	Study of magnetic properties of carbon nanosheets fabricated using RF-Plasma enhanced chemical vapor deposition	Shivaraman Ramaswamy	Oral	1:00 PM 1:00 PM
9	604609	FS-09	FPGA benchmark simulation based on spin MOSFET	Kazutaka Ikegami	Oral	1:00 PM 1:00 PM
10	607199	FS-10	Terahertz time-domain spectroscopy of CeO <sub>2</sub> polycrystal	Sheng Li	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Electromagnetic Compatibility and Transformers  
 Session Abbreviation: FT  
 Client Session ID: 430  
 Session Type: Poster  
 Duration: May 7, 2009 1:00 PM -  
 May 7, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Toshiro Sato  
 Session Location: Exhibit Hall B  
 Display individual abstract times in IP? no

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605882	FT-01	Cross-talk suppression in high density printed circuit board using magnetic composite filled in spacing between signal lines	Toshiro Sato	Poster	1:00 PM 1:00 PM
2	606834	FT-02	RF Joule losses analysis in thin film noise suppressor estimated by 3d equivalent circuit network	Sho Muroga	Oral	1:00 PM 1:00 PM
3	607893	FT-03	Permeability and permittivity effects of magnetic nanorod filled in composites for the broadband noise suppression	Baekil Nam	Poster	1:00 PM 1:00 PM



4	608376	FT-04	Analysis of location tracking and speed measurements for moving objects by using radio frequency identification systems	Eugen Coca	Poster	1:00 PM 1:00 PM
5	607629	FT-05	Design and simulation for three phase saturated core high temperature superconducting fault current limiter	Jian Guo Zhu	Poster	1:00 PM 1:00 PM
6	606158	FT-06	Rotating flux and estimation rotational loss in the joints of a model three-phase three-limb transformer core under sinusoidal and PWM voltage excitation	Sakda Somkun	Poster	1:00 PM 1:00 PM
7	608539	FT-07	Analysis of variable reluctance resolver according to output signal winding methods	Chang-Sung Jin	Poster	1:00 PM 1:00 PM
8	607801	FT-08	Electrostatically tunable inductors with multiferroic composites	Jing Lou	Poster	1:00 PM 1:00 PM

### Session Information

Session Title: Power and Control Magnetics  
 Session Abbreviation: FU  
 Client Session ID: 435  
 Session Type: Poster  
 Duration: May 7, 2009 1:00 PM -  
 May 7, 2009 5:00 PM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Mike Gibbs  
 Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	607524	FU-01	Magnetic signal transmission coil for control of contactless power transmission	Hideki Tanimoto	Poster	1:00 PM 1:00 PM
2	605282	FU-02	Improvement of electric power conversion efficiency of magnetic oscillation-type DC-AC converter	Yoshitomo Ogata	Oral	1:00 PM 1:00 PM
3	607760	FU-03	Novel hybrid fuzzy-PI controllers for the speed control of permanent magnet synchronous motors	Amit Vilas Sant	No Preference	1:00 PM 1:00 PM
4	605451	FU-04	Coupled inductor characterizations for a high performance interleaved boost converter	Hiroyuki Kosai	Poster	1:00 PM 1:00 PM
5	606414	FU-05	A system for interactive design of the winding layout in PM machines	Chang-Chou Hwang	Poster	1:00 PM 1:00 PM
6	607472	FU-06	Characteristics of closed slots opening for high power motor with segment rectangular copper wire on electric vehicle	Jae-Hak Choi	Poster	1:00 PM 1:00 PM
7	607564	FU-07	A study on critical speed of 15 kW 120,000 rpm ultra speed motor's rotor with shrink fit	Do-Kwan Hong	Poster	1:00 PM 1:00 PM
8	607965	FU-08	Design and modeling of improved functionality of switching inductive devices using non-linear behavior of core materials	Aghuinyue Umenei	No Preference	1:00 PM 1:00 PM

9	608366	FU-09	A novel strategy for phase current control of two phase hybrid stepping motor based high speed swing drive system	Youguang Guo	Poster	1:00 PM 1:00 PM
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**Session Information**

Session Title: Permanent magnetic materials (III)

Session Abbreviation: FV

Client Session ID: 440

Session Type: Poster

Duration: May 7, 2009 1:00 PM -  
May 7, 2009 5:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Aru Yan

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606926	FV-01	Anisotropy distribution of FePt nanoparticles with twinned structures	Dan Wei	Poster	1:00 PM 1:00 PM
2	606928	FV-02	Tunable stochastic resonance in magnetic nanoparticles with auxiliary permanent magnetic field	Alexei Isavnin	Poster	1:00 PM 1:00 PM
3	608705	FV-03	Impact of particle size on room temperature ferro-magnetism of SrFe <sub>12</sub> O <sub>19</sub>	Veer Awana	Poster	1:00 PM 1:00 PM
4	608362	FV-04	A change of magnetic properties of Y <sub>2</sub> (Fe,Mn) <sub>17</sub> compounds under hydrogenation	Nikolay Pankratov	No Preference	1:00 PM 1:00 PM
5	606112	FV-05	On the behavior of the squareness factor of REFeB (RE = Nd or Pr) magnets above room temperature	Elio Périgo	No Preference	1:00 PM 1:00 PM
6	605904	FV-06	Texture formation in die-upset Nd-lean Nd-Fe-(Cu)-Ga-B alloy	Hae-Woong Kwon	No Preference	1:00 PM 1:00 PM
7	607441	FV-07	Synthesis and their magnetic property of Dy coated Nd-Fe-B powder by decomposition of Dy metal salt	Ji-Hun Yu	Poster	1:00 PM 1:00 PM
8	606065	FV-08	Surface domain configuration of Nd-Fe-B sintered magnets influenced by underneath magnetization	Masaaki Takezawa	Poster	1:00 PM 1:00 PM
9	605673	FV-09	Improvement of stability of Nd-Fe-B anisotropic bonded magnet MAGFINE	Chisato Mishima	Poster	1:00 PM 1:00 PM
10	606909	FV-10	Microstructure and magnetic properties of hot deformed magnets by dysprosium oxide addition	Huijie Wang	Poster	1:00 PM 1:00 PM

**Session Information**

Session Title: Motor Design (II)

Session Abbreviation: FW

Client Session ID: 445

Session Type: Poster

Duration: May 7, 2009 1:00 PM -  
May 7, 2009 5:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Johannes Jacobus Hubertus Paulides  
Session Chair: Franz Zürcher

Session Location: Exhibit Hall B

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606679	FW-01	A fault-tolerant permanent-magnet hybrid brushless motor drive for electric vehicles	Chunhua Liu	Poster	1:00 PM 1:00 PM
2	606063	FW-02	Maximum torque per Ampere control of flux-controllable stator-PM brushless motors over full-speed range	Xiaoyong Zhu	Poster	1:00 PM 1:00 PM
3	606869	FW-03	An optimal design of permanent magnet pole shape for a BLDC motor by using latin hypercube sampling strategy	Pan Seok Shin	Poster	1:00 PM 1:00 PM
4	603206	FW-04	A new modular flux-switching permanent-magnet motor for fault-tolerant applications	Wenxiang Zhao	Poster	1:00 PM 1:00 PM
5	605647	FW-05	A totally brushless electric variable transmission machine system for hybrid electric vehicles	Yubin Wang	Poster	1:00 PM 1:00 PM
6	608574	FW-06	High performance line-start permanent magnet synchronous motor amended from small industrial three-phase induction motor	Weizhong Fei	Poster	1:00 PM 1:00 PM
7	607248	FW-07	A novel hybrid excitation flux-switching motor for hybrid vehicles	Hua Wei	Poster	1:00 PM 1:00 PM
8	608625	FW-08	Preload effect in a mobile fan motor design	Chien Chang Wang	Poster	1:00 PM 1:00 PM
9	607034	FW-09	Axial-flux permanent magnet brushless motors for slim vortex pumps	Guo-Jhih Yan	Poster	1:00 PM 1:00 PM
10	607369	FW-10	Effect of the number of poles on the acoustic noise from BLDC motors	Kwang Suk Kim	Poster	1:00 PM 1:00 PM
11	607574	FW-11	On the PM demagnetization physics of variable flux memory motor	Lin Heyun	Poster	1:00 PM 1:00 PM
12	607664	FW-12	Loss distribution of 3-phase induction motor and BLDC motor according to core materials and operating conditions	Soon-O Kwon	Poster	1:00 PM 1:00 PM

**Session Information**

Session Title: Symposium on Magnetism for Sustainable Energy

Session Abbreviation: GA

Client Session ID: 450

Session Type: Oral

Duration: May 8, 2009 9:00 AM -  
May 8, 2009 11:30 AM

Session Number Prefix:

Session Hosts: Session Chair: Casey W. Miller

Session Location: Room 314

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	616966	GA-01	Advanced permanent magnets	Oliver Gutfleisch	Invited	9:00 AM 9:30 AM
2	616988	GA-02	Nanocrystalline soft magnetic alloys: sustained energy by improved energy efficiency	Matthew Willard	Invited	9:30 AM 10:00 AM
3	617025	GA-03	Magnetocaloric materials and magnetic materials	Karl Gschneidner, Jr.	Invited	10:00 AM 10:30 AM
4	617174	GA-04	Magnetic microsystems Mag-MEMS: novel trends.	Jérôme Delamare	Invited	10:30 AM 11:00 AM
5	606724	GA-05	A miniaturized electromagnetic generator with planar coils and its energy harvest circuit	Lun-De Liao	Oral	11:00 AM 11:30 AM

### Session Information

Session Title: Biomagnetic Applications (III)  
 Session Abbreviation: GB  
 Client Session ID: 455  
 Session Type: Oral  
 Duration: May 8, 2009 9:00 AM -  
 May 8, 2009 11:45 AM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Oscar Cespedes  
 Session Location: Room 314  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	606556	GB-01	Hybrid nanoparticles based on $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ perovskite phase and silica shell for magnetically induced hyperthermia and MR imaging	Ondrej Kaman	Oral	9:00 AM 9:15 AM
2	608269	GB-02	Water dispersible Fe/Fe-oxide core-shell nanoparticles for MRI contrast enhancement	Hafsa Khurshid	Oral	9:15 AM 9:30 AM
3	608758	GB-03	Relaxation and loss power characteristics of iron oxide nano-particles designed for magnetic hyperthermia	Eiji Kita	No Preference	9:30 AM 9:45 AM
4	605112	GB-04	Hyperthermia properties of single-domain Fe and FeCo nanoparticles : from Néel -Brown relaxation to Stoner-Wohlfarth switching.	Julian Carrey	Oral	9:45 AM 10:00 AM
5	606700	GB-05	The design of an applicator and half-bridge series-resonant type heating system for magnetic nanoparticle thermotherapy	Chien-Chang Chen	Oral	10:00 AM 10:15 AM
6	608765	GB-06	Contactless power transmission	Shiann-fong Huang	Oral	10:15 AM 10:30 AM
7	605925	GB-07	Bio-magnetic sensing for human central nervous system midline using amorphous wire CMOS IC pico-Tesla MI sensor	Kaneo Mohri	No Preference	10:30 AM 10:45 AM

8	607763	GB-08	Examination of simultaneous power and signal transmission using power magnetic flux as carrier wave in implanted TES	Seiji Matsumura	No Preference	10:45 AM 11:00 AM
9	606830	GB-09	Jaw tracking system using resonated wireless marker	Shin Yabukami	No Preference	11:00 AM 11:15 AM
10	593382	GB-10	Measurement of magnetocardiogram using by high-frequency carrier-type thin-film sensor at room temperature	Shin Yabukami	No Preference	11:15 AM 11:30 AM
11	608131	GB-11	Microfabricated magnetic sifter for high-throughput and high-gradient magnetic separation	Christopher Earhart	Oral	11:30 AM 11:45 AM

### Session Information

Session Title: Magnetic Nanowires, Clusters, and Nanoparticles (II)

Session Abbreviation: GC

Client Session ID: 460

Session Type: Oral

Duration: May 8, 2009 9:00 AM -  
May 8, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Vince G Harris

Session Location: Room 315

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605808	GC-01	Field effect transistor based on Ge <sub>1-x</sub> Mn <sub>x</sub> nanowires	Olga Kazakova	Oral	9:00 AM 9:15 AM
2	607868	GC-02	Three-terminal transport through individual single-molecule magnets	Alexander Zyazin	Oral	9:15 AM 9:30 AM
3	599988	GC-03	Direct characterization of the superparamagnetic ferromagnetic transition of single nano-islands	Sebastian Wedekind	Oral	9:30 AM 9:45 AM
4	607957	GC-04	Structure and magnetism of undoped and Co-Doped TiO <sub>x</sub> clusters	David Sellmyer	Oral	9:45 AM 10:00 AM
5	608472	GC-05	Rapid simple aqueous-preparation of uniform-sized Fe-Ni spherical nanoparticles with strong saturation magnetization	Takashi Nakagawa	Oral	10:00 AM 10:15 AM
6	606821	GC-06	Magnetic frustration and particle size effects in nanostructured Gd <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> garnets	Hariharan Srikanth	Oral	10:15 AM 10:30 AM
7	607385	GC-07	Spontaneous spin polarization of Ag nanoparticles	Chi-Yen Li	Oral	10:30 AM 10:45 AM
8	605844	GC-08	Unexpected ferromagnetism in Si nanocaps on self-assembled glass beads	Yun-Chung Chi	Oral	10:45 AM 11:00 AM
9	607840	GC-09	Nanostructure facilitating room-temperature ferromagnetism in Zn <sub>1-x</sub> CoxO nanowires using magnetic force microscopy	Wen-Bin Jian	Oral	11:00 AM 11:15 AM
10	606958	GC-10	(In,Cr)As ferromagnetic semiconductor quantum dots	Jianhua Zhao	Oral	11:15 AM 11:30 AM

11	607716	GC-11	Enormous resistance switching phenomena observed in nickel-aluminium-oxide nanocomposite	Suguru Yamanishi	Oral	11:30 AM 11:45 AM
12	604755	GC-12	Effect of external magnetic fields on the magnetic domain structure of nanoparticle films	Sibylle Sievers	Oral	11:45 AM 12:00 PM

**Session Information**

Session Title: Spin Torque Oscillators (II)

Session Abbreviation: GD

Client Session ID: 465

Session Type: Oral

Duration: May 8, 2009 9:00 AM -  
May 8, 2009 12:00 PM

Session Number Prefix:

Session Hosts: Session Chair: Andrew Kent

Session Location: Room 306

Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	614016	GD-01	Spectral line width and line shape of spin torque oscillators	Ilya Krivorotov	Invited	9:00 AM 9:30 AM
2	607890	GD-02	Bias current and temperature dependences of the spin transfer microwave emission in MgO based magnetic tunnel junctions	Benoit Georges	Oral	9:30 AM 9:45 AM
3	604709	GD-03	Auto-oscillation threshold and linewidth optimization in MgO based spin torque oscillators	Thibaut Devolder	Oral	9:45 AM 10:00 AM
4	607256	GD-04	MgO-based Spin Torque Oscillators with above 0.1uW output power	Pranaba Muduli	Oral	10:00 AM 10:15 AM
5	604703	GD-05	Time domain studies of spin torque oscillators based on MgO tunnel junctions	D. Houssameddine	Oral	10:15 AM 10:30 AM
6	607484	GD-06	Zero field precession and hysteretic threshold currents in spin torque oscillators with tilted polarizer	Yan Zhou	Oral	10:30 AM 10:45 AM
7	606515	GD-07	Non-stationary magnetization dynamics driven by spin-transfer-torque in nanoscale spin-valves	Giovanni Finocchio	Oral	10:45 AM 11:00 AM
8	607065	GD-08	Phase control of cooperative dynamics of an array of spin-torque nano-oscillators	Vasil Tiberkevich	Oral	11:00 AM 11:15 AM
9	605686	GD-09	Nonlinearity reduction in spin-transfer oscillators under the external field applied in the directions near the hard axis	K. Mizushima	Oral	11:15 AM 11:30 AM
10	605388	GD-10	Hard transitions to magnetic vortex self-oscillations in spin-transfer nanocontacts	Mitchell Wallis	Oral	11:30 AM 11:45 AM
11	600620	GD-11	Coexistence of propagating and nonpropagating spin wave modes in a nanocontact spin torque oscillator	Stefano Bonetti	Oral	11:45 AM 12:00 PM

Session Information						
Session Title: Microwave Materials and Devices						
Session Abbreviation: GE						
Client Session ID: 470						
Session Type: Oral						
Duration: May 8, 2009 9:00 AM - May 8, 2009 11:30 AM						
Session Number Prefix:						
Session Hosts: Session Chair: Andrei Nickolay Slavin						
Session Location: Room 307						
Display individual abstract times in IP? yes						

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605409	GE-01	An investigation of magnetic and mechanical properties of planar composite filling by Co-based glass-coated microwires	Nikolay Pankratov	No Preference	9:00 AM 9:15 AM
2	606956	GE-02	Effects of different kinds of loss on the performance of regular polygonal invisible cloak	Qun Wu	Oral	9:15 AM 9:30 AM
3	606735	GE-03	Nonreciprocal spin waves in Co-Ta-Zr magnetic films	Pedram Khalili Amiri	Oral	9:30 AM 9:45 AM
4	606752	GE-04	Strong magnetoelectric coupling in spin-spray deposited ferrite/ferroelectric heterostructures	Ming Liu	Oral	9:45 AM 10:00 AM
5	607129	GE-05	Spin Wave Resonance in Single-Side Pinned Permalloy Nano Films	Ke Sun	Oral	10:00 AM 10:15 AM
6	607464	GE-06	Analysis of grain shape and orientation in BaFe <sub>12</sub> O <sub>19</sub> -ferrites using electron backscatter diffraction (EBSD)	Anjela Koblischka-Veneva	No Preference	10:15 AM 10:30 AM
7	607758	GE-07	Nonreciprocal spin wave scattering on a magnonic crystal	Andrii Chumak	Oral	10:30 AM 10:45 AM
8	608728	GE-08	Magnetostatic spin wave modes in ferromagnetic tube	Alexander Kozhanov	Oral	10:45 AM 11:00 AM
9	605765	GE-09	Permeability and Permittivity in ferromagnetic resonance state in single layered Ni <sub>81</sub> Fe <sub>19</sub> micron-scale wire	Akinobu Yamaguchi	No Preference	11:00 AM 11:15 AM
10	606772	GE-10	Microstrip tunable band-pass filter using ferrites (nano-particles) coupled lines	Bijoy Kuanr	No Preference	11:15 AM 11:30 AM

Session Information						
Session Title: Spin Transport and Magnetoresistance (II)						
Session Abbreviation: GF						
Client Session ID: 475						
Session Type: Oral						
Duration: May 8, 2009 9:00 AM - May 8, 2009 11:15 AM						
Session Number Prefix:						
Session Hosts: Session Chair: Albrecht Jander						
Session Location: Room 308						
Display individual abstract times in IP? yes						

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	605513	GF-01	MR Enhancement of CPP spin valves with FeCo nanocontacts by high-temperature annealing	Hiromi Fuke	Oral	9:00 AM 9:15 AM
2	605639	GF-02	The effect of randomness on the magnetoresistance of domain walls confined in a nano-oxide-layer	Jun Sato	Oral	9:15 AM 9:30 AM
3	607082	GF-03	Pseudo spin valves based on $\text{L}_{10}$ (111) FePt with tilted anisotropy	Chaolin Zha	Oral	9:30 AM 9:45 AM
4	607759	GF-04	Interlayer coupling through Cu spacer in the [Pd/Co]/Pd/Co/Cu(t)/Co/[Pd/Co]/FeMn exchange biased spin-valves with perpendicular anisotropy	Jang Heo	Oral	9:45 AM 10:00 AM
5	607444	GF-05	Nano-oxide layer formation mechanism on the surface of $\text{Co}_2(\text{CrFe})\text{Si}$ full Heusler alloy for nanocontacts CPP-spin valves	Yohei Shiokawa	Oral	10:00 AM 10:15 AM
6	616640	GF-06	Spin polarization in half metals probed by femtosecond spin excitation	Markus Muenzenberg	Invited	10:15 AM 10:45 AM
7	608342	GF-07	First order reversal curve analysis of magnetization and magnetoresistance of Co/Cu multilayer thin films*	Randy Dumas	Oral	10:45 AM 11:00 AM
8	606959	GF-08	Signal propagation in time-dependent collinear spin transport	Hans Christian Schneider	Oral	11:00 AM 11:15 AM

#### Session Information

Session Title: Motors and Actuators (II)  
 Session Abbreviation: GG  
 Client Session ID: 480  
 Session Type: Oral  
 Duration: May 8, 2009 9:00 AM -  
 May 8, 2009 11:45 AM  
 Session Number Prefix:  
 Session Hosts: Session Chair: Toshiyuki Ueno  
 Session Location: Room 309-310  
 Display individual abstract times in IP? yes

Order	Control ID	Final ID	Title	Presenting Author	Presentation Type	Start Time End Time
1	598921	GG-01	Torque scaling laws for interior and exterior rotor permanent magnet machines	Thomas Reichert	Oral	9:00 AM 9:15 AM
2	600744	GG-02	Novel bearingless motor concept with a non-integer stator-slot/pole-pair ratio 24/13	Franz Zürcher	Oral	9:15 AM 9:30 AM
3	607265	GG-03	Design of multi-function pwm inverter applied to analysis of core loss under non-sinusoidal waveforms	Cheng-Ju Wu	Oral	9:30 AM 9:45 AM
4	601025	GG-04	Design and experimental validation of a magnetostrictive linear motor using Fe-Ga (Galfenol) alloys	Zu Guang Zhang	Oral	9:45 AM 10:00 AM
5	607321	GG-05	The loss characteristics of amorphous core on permanent magnet type motor/generator	Jeong-Phil Lee	Oral	10:00 AM 10:15 AM



6	607021	GG-06	Optimizing the slot geometry to reduce the losses in PMSM	Yu Tang	Oral	10:15 AM 10:30 AM
7	606628	GG-07	3d to 2d equivalence for cogging force computation of a novel transverse flux permanent magnet linear machine	Wang Qian	Oral	10:30 AM 10:45 AM
8	608485	GG-08	Theoretical and simulation analysis of influences of stator tooth width on cogging torque of PMSMs	Li Yong	Oral	10:45 AM 11:00 AM
9	606675	GG-09	An interpolative finite element modeling of a large solid pole synchronous machine and its starting process simulation	Siu-lau Ho	Oral	11:00 AM 11:15 AM
10	608436	GG-10	Back EMF analysis of a novel axial flux permanent magnet synchronous machine with segmented and laminated stator	Weizhong Fei	Oral	11:15 AM 11:30 AM
11	606794	GG-11	Assessing anomalous losses with dynamic hysteresis models: a confrontation with Bertotti's experiments	Vincent Mazauric	Oral	11:30 AM 11:45 AM

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