

# MONDAY 26 AUGUST Morning session

08.45 - 09.00	Room JUPITER <b>Opening and Welcome Address</b>			
09.00	<b>Room JUPITER</b> Chair: <b>D. Givord</b> Keynote Speaker: <b>Prof. A. Fert, Nobel Laureate 2007</b> SPIN-ORBITRONICS			
09.45	<b>Room JUPITER</b> Chair: <b>F. Casoli</b> Semiplenary Speaker: <b>G.E. Bauer</b>	<b>Room DELPHI</b> Chair: <b>D. Suess</b> Semiplenary Speaker: <b>M. Gibert</b>		
	Spintronics and spin caloritronics of ferromagnetic insulator metal heterostructures	Nickelate-Based Heterostructures		
10.30	<b>Coffee break</b>			
	<b>Room SALON DE ROSES A</b>	<b>Room SALON DES ROSES B</b>	<b>Room DELPHI</b>	<b>Room NEFELI</b>
	<b>SYMPOSIUM 5.1</b>	<b>SYMPOSIUM 1.1</b>	<b>SYMPOSIUM 4.1</b>	<b>SYMPOSIUM 6.1</b>
	<i>Chair:</i>	<i>Chair:</i>	<i>Chair:</i>	<i>Chair:</i>
	<b>D. Gatteschi</b>	<b>O. Isnard</b>	<b>P. McGuinness</b>	<b>G. Loizos</b>
11.00	<i>Invited:</i> <b>I. Schuller</b>	<i>Invited:</i> <b>R. Lavrijsen</b>	<i>Invited:</i> <b>V. Zaspalis</b>	<i>Invited:</i> <b>E. Quandt</b>
	<b>Stress Controlled Magnetism in Oxide-Magnetic Hybrids</b>	<b>Domain-Wall Depinning Governed by the Spin-Hall Effect</b>	<b>Ceramic Magnetic Materials: Targetted Design For New Emerging Applications</b>	<b>Giant Magnetoelectrics Effect in Thin Film Composites</b>
11.30	Imaging Magnetization Reversal Processes In Cobalt Antidot Arrays	Manipulation Of Spin-Transport By Disorder	Record Energy Densities Above 450 kJ/m <sup>3</sup> In Exchange Coupled SmCo <sub>5</sub> /Fe Multilayers	Characterization Of Integrated Inductors With One And Two Yig Layers For Low-Power Converters (1W)
	<b>L. A. Rodriguez Gonzalez</b>	<b>S. Chadov</b>	<b>N. Volker</b>	<b>St. Capraro</b>
11.45	Structure And Magnetic Properties Of CoFe Nanowires	Temperature Dependence Of Spin Polarization In Co/Ni Nanowires Determined From Current-Induced Magnetic Domain Wall Dynamics	Understanding Coercivity In Nd-Fe-B Sintered Magnets: Multiscale Characterisation And Modelling Woodcock	High-frequency permeability changes in Fe-Co-Hf-N/Ti-N multilayer coatings for mechanical stress characterization
	<b>C. Bran</b>	<b>K. Ueda</b>	<b>Th.G. Woodcock</b>	<b>K. Krueger</b>
12.00	Preparation And Magneto-transport Characterization Of Nanopatterned La <sub>2/3</sub> Ca <sub>1/3</sub> MnO <sub>3</sub> Nanowires	Spin Seebeck Effect In Epitaxial Fe <sub>3</sub> O <sub>4</sub> (001) Film On SrTiO <sub>3</sub> (001))	Soft Magnetic Oblate Spheroids In A Hard Magnetic Matrix	Thin-Film Microtransformer For High Frequency Power Applications
	<b>P. A. Algarabel Lafuente</b>	<b>R. Ramos</b>	<b>J. Fischbacher</b>	<b>D. Dinulovic</b>
12.15	Interface Properties Of LaNiO <sub>3</sub> /LaMnO <sub>3</sub> Superlattices Investigated by XMCD	Spin Transfer Torque Effects In La <sub>2/3</sub> Sr <sub>1/3</sub> MnO <sub>3</sub> Measured By Resistive Detection And XMCD-PEEM Imaging	Development Of Hysteresis In Ball-Milled La(Co <sub>5-x</sub> Fe <sub>x</sub> )	A Thin Film Passive Magnetic Field Sensor Operated At 425 MHz
	<b>C. Piamonteze</b>	<b>M. Foerster</b>	<b>P. Tozman</b>	<b>J. Kosel</b>
12.30	Focused Ion Beam Fabricated Magnetic Antidot Arrays: Magnetic Structure Dependence On Lattice Symmetry	Spin Hall Effect In Switching Of Three Terminal Magnetic Tunnel Junction With Culr Channel	Comparison Of Global Texture Measurements By XRD And An EBSD Stochastic Sampling Method In (Nd,Dy)-Fe-B Sintered Magnets	Realization Of Unbiased Ferrite Cobalt Nanocomposites For Non-Reciprocal Microwave Components
	<b>A. Kaidatzis</b>	<b>M. Yamanouchi</b>	<b>S. Sawatzki</b>	<b>A. Tchangoulian</b>
12.45	Memory Effect On The Magnetic Behaviour Of Assemblies Of Nanoparticles With FM/AFM Interface	Impact Of Interface Hybridization On Spin Injection In Molecules	Anisotropic Two-Phase Composite Magnets With Single-Phase Hard Magnetic Behavior	Simulation And Measurement Of The Magnetic Field Radiation For A Planar Inductor
	<b>M. Vasilakaki</b>	<b>R. Mattana</b>	<b>J. Thielsch</b>	<b>J. J. Rousseau</b>
13.00	<b>BREAK</b>			

# MONDAY 26 AUGUST Afternoon session

15.45	Coffee break			
	Room SALON DE ROSES A SYMPOSIUM 5.2	Room SALON DES ROSES B SYMPOSIUM 1.2	Room DELPHI SYMPOSIUM 4.2	Room NEFELI SYMPOSIUM 3.1
	Chair: <b>A. Guimaraes</b>	Chair: <b>N. Volkov</b>	Chair: <b>S. Cadogan</b>	Chair: <b>H. Chiriac</b>
16.15	<i>Invited: D. Sellmyer</i> <b>Novel Phenomena In High-Anisotropy Nanomagnets</b>	<i>Invited: X. Jin</i> <b>Experimental Identification Of Extrinsic And Intrinsic Contributions In The AHE</b>	<i>Invited: F. Victorino</i> <b>Gaining Information Of Phase Transitions And Critical Phenomena Via Magnetocaloric Studies</b>	<i>Invited: J. Tejada</i> <b>Magnetic Deflagration: Materials And Related Phenomena</b>
16.45	Electrical Read-Out Of Individual Nuclear Spin Trajectories <b>S. Thiele</b>	Single Electron Spintronics Studied In Individual Nanometre-Scale Magnetic Tunnel Junctions <b>R. C. Temple</b>	Generalized Magnetocaloric Properties Of Ni-Mn-In And Ni-Mn-In-Co Systems <b>T. Gottschall</b>	Local Orbitals Approach To The Anomalous Hall And Nernst Effects In Itinerant Ferromagnets <b>P. Streda</b>
17.00	Effective Spin Meron Pairs In Ferromagnetic Multilayers <b>S. Wintz</b>	Electric-Field Control Of Domain Wall Nucleation And Pinning In A Metallic Ferromagnet <b>A. Bernand-Mantel</b>	Comparative Analysis Of Magnetic And Caloric Determinations Of The Magnetocaloric Effect In $Mn_{0.99}Co_{0.01}As$ <b>R. Burriel</b>	Benefit Of (Cu/Pt) Intermixing Dual Barrier For The Blocking Temperature Distribution Of Co/(Cu/Pt)/IrMn <b>K. Akmalidinov</b>
17.15	Electron Spin Resonance In $La_{0.25}Ca_{0.75}MnO_3$ Manganite <b>A. Fernandez</b>	Theory Of Ferromagnetism Driven By Superexchange In Dilute Magnetic Semiconductors <b>C. Simserides</b>	Magnetism And Magnetocaloric Effect In Multicomponent Laves Phase Compounds <b>J. Cwik</b>	Reversibility in the magnetocaloric effect at the antiferromagnetic-ferromagnetic spin-flop transition in $Mn_3GaC$ <b>Ö. Cakir</b>
17.30	Spin-Dependent Smoluchowski Effect <b>M. Corbetta</b>	Diffusive Rashba Spin Torque In Ferromagnetic Heterostructures <b>C. Ortiz Pauyac</b>	On The Barocaloric Effect In Rare Earth Based Compounds <b>N. Antunes de Oliveira</b>	Angular Dependence Of The XMLD In Reflection At The 3p Edges Of The 3d Ferromagnets – Theory And Experiment <b>D. Legut</b>
17.45	Resonant Soft X-Ray Scattering On Artificial Spin Ice <b>L. Anghinolfi</b>	Quantum Interference Effects In [Co/Bi]N Thin Films <b>P. Athanasopoulos</b>	Magnetic Properties And Magnetocaloric Effect In Layered $NdMn_{1.9}V_{0.1}Si_2$ <b>Md Din Muhamad Faiz</b>	Exploration Of Thermally Activated Flux Flow In The $Y_3Ba_5Cu_8O_{18}$ And $Y_3Ba_5Ca_2Cu_8O_{18}$ Superconductors <b>A. Osman</b>
18.00	Inelastic Spin Scattering With Individual Kondo Impurities Investigated By STM Spectroscopy <b>D. Serrate</b>	Piezoelectric-Strain Control Of Perpendicular Magnetic Anisotropy In Pt/Co/Pt Films <b>P. M. Shepley</b>	Microscopic Theory Of Magnetism In Magnetocaloric Material $Fe_2P_{1-x}T_x$ (T=B And Si) <b>E. Delczeg</b>	Structural And Magnetic Properties Of Fe Doped Mn-Ga Ribbons <b>Ch. Sarafidis</b>
19.00 - 21.00	<b>POSTER SESSION – A</b> <i>During Poster Session Buffet Dinner will be served</i>			

# TUESDAY 27 AUGUST Morning session

09.00	<b>Room JUPITER</b> Chair: <b>R. Stamps</b> Plenary Speaker: <b>L. Heyderman</b> Artificial Spin Ice: Frustration, Emergent Magnetic Monopoles And Thermal Behaviour			
09.45	<b>Room JUPITER</b> Chair: <b>M. Albrecht</b> Semiplenary Speaker: <b>M. Gubbins</b>	<b>Room DELPHI</b> Chair: <b>D. Fiorani</b> Semiplenary Speaker: <b>H. Brueckl</b>		
	Heat Assisted Magnetic Recording: Progress And Challenges	Magnetoresistive Sensors And Magnetic Nanoparticles Applied To Biomedical Diagnostics		
10.30	<b>Coffee break</b>			
	<b>Room SALON DE ROSES A</b>	<b>Room SALON DES ROSES B</b>	<b>Room DELPHI</b>	<b>Room NEFELI</b>
	<b>SYMPOSIUM 5.3</b>	<b>SYMPOSIUM 6.2</b>	<b>SYMPOSIUM 4.3</b>	<b>SYMPOSIUM 3.2</b>
	Chair: <b>J. Fontcuberta</b>	Chair: <b>Ch. Moutafis</b>	Chair: <b>S. Hiroswawa</b>	Chair: <b>O. Fruchart</b>
11.00	<i>Invited: R. Wiesendanger</i>  <b>Towards Computation With Single Skyrmions And Single Spins</b>	<i>Invited: J. Chen</i>  <b>Improvement Of Microstruc- ture And Magnetic Proper- ties of FePt Films With New Intermeidate Layers</b>	<i>Invited: L. Lewis</i>  <b>Interplanetary Inspiration: Synthesizing Tetraateneite For Permanent Magnet Applications</b>	<i>Invited: M. Kramer</i>  <b>Approaches For The Dis- covery And Design Of Non-Rare-Earth Based Permanent Magnets</b>
11.30	Segregation Phenomena In Fe-Nd-B Nanomagnets	Tailoring The Magnetic Domain Patterns Of Sputtered TbFeGa Alloys	Metal Injection Moulding (MIM) of NdFeB Magnets	Modulation Of Exchange Bias In Ni-Mn-Sb Heusler Alloys By Thermal Cycle
	<b>F. Schmidt</b>	<b>R. Ranchal</b>	<b>T. Hartwig</b>	<b>Y. Changping</b>
11.45	(Sm,Pr) <sub>2</sub> (Co,Fe) <sub>17</sub> and Nd <sub>2</sub> Fe <sub>14</sub> B Anisotropic Particles By Mechanochemical Synthesis	Correlations Between Atomic Structure And Magnetic Properties Of Granular FePt <sub>x</sub> Y Films	Manganese Alloys For Magnetic Refrigeration: Magnetoelastic Vs Magnetostructural Phase Transitions	Exchange Bias Effect In Heterostructures Of Ferri- magnetic TbFeCo And Ferromagnetic [Co/Pt]- Multilayers
	<b>G. Hadjipanayis</b>	<b>S. Wicht</b>	<b>F. Guillou</b>	<b>B. Hebler</b>
12.00	Low-Temperature Thermo- magnetic Properties Of The Butterfly {Fe <sub>3</sub> LnO <sub>2</sub> } Single-Molecule Magnets	Breaking The Thermally Induced Write Error In Heat Assisted Recording By Using Low And High T <sub>c</sub> Materials	Selective Laser Melting Of La(Fe,Co,Si) <sub>13</sub> Regenerators For Magnetic Refrigeration	Low Thickness Antiferromagnetic Thin Film Of FeRh
	<b>L. Badia-Romano</b>	<b>D. Suess</b>	<b>J. Moore</b>	<b>P. Warin</b>
12.15	Transport Properties Of Gold Nanoparticles Linked By Single- Molecule Magnets	Magnetoimpedance In As-Prepared NiFe/Cu/NiFe Multilayer With NiFe Gratings	Multiscale Investigation Of NiMnGa Thin Films And Nano-Disks	Control Of The Magnetic Anisotropy Of An Antiferro- magnetic Film Through Growth Conditions
	<b>G. Cucinotta</b>	<b>Li Bodong</b>	<b>F. Albertini</b>	<b>M. – A. Leroy</b>
12.30	3d Magnetic Nanostruc- tures Fabricated By Spot Electron-Beam Lithography	Structure Analysis Of CoPt Film With Metastable Or- dered Phases Of L <sub>1</sub> , And Bh Formed On Ru(0001) Underlayer	Origin Of The Giant Magnetocaloric Effect	Magnetism in the Interface of Co/CoO
	<b>A. Samardak</b>	<b>O. Mitsuru</b>	<b>R. Prasenjit</b>	<b>D. Tzeli</b>
12.45	1-Bit Full Adder In Perpen- dicular Nanomagnetic Logic Using A Novel 5-Input Majority Gate	Effect Of Mgo Buffer Layer And Substrate Tem- perature On Structural And Magnetic Properties Of L <sub>10</sub> - FePt Thin Films	The Magnetic Properties Of Fe <sub>2</sub> P Under Pressure Revisited: The Influence Of Composition On The T-P Diagram And Magnetocaloric Effects	Antiferromagnetic Structure Of Mn <sub>2</sub> Au
	<b>St. Breitzkreutz</b>	<b>Th. Speliotis</b>	<b>L. Caron</b>	<b>V. Barthem</b>
13.00	<b>BREAK</b>			

# TUESDAY 27 AUGUST Afternoon session

15.45	Coffee break			
16.15	Room JUPITER Chair: <b>L. Schultz</b> Semiplenary Speaker: <b>J. Ackerman</b>	Room DELPHI Chair: <b>M. Kramer</b> Semiplenary Speaker: <b>M. D. Kuz'min</b>		
	Spin-Torque Driven Magnetic nano-droplet Solitons	Physical Principles Of Magnetic Refrigeration Design		
	Room SALON DE ROSES A	Room SALON DES ROSES B	Room DELPHI	Room NEFELI
	SYMPOSIUM 1.3	SYMPOSIUM 6.3	SYMPOSIUM 4.4 MATERIALS FOR ENERGY	SYMPOSIUM 3.3
	Chair: <b>C. Christides</b>	Chair: <b>M. Ohtake</b>	Chair: <b>O. Gutfleisch</b>	Chair: <b>M. Vazquez</b>
17.00	<i>Invited: M. Sawicki</i>  <b>Understanding The Origin Of Ferromagnetism In (Ga,Mn)N</b>	<i>Invited: J. Fidler</i>  <b>High Density Tape Recording: A Micromagnetic Study</b>	<i>Invited: H. Satoshi</i>  <b>Recent Understandings Of Grain Boundary Magnetism In Nd-Fe-B Permanent Magnets And Their Implications</b>	<i>Invited: Th. Archer</i>  <b>Which heusler alloys distort?</b>
17.30	Influence Of A Metallic Spacer On The Magnetic And Transport Properties Of Perpendicular Junctions	Linear Magnetoresistance Of Electrodeposited InSb For High Magnetic Field Sensors	<i>Invited: M. Johnson</i>  <b>TBA</b>	Modelling Of Packed Co Nanorod Structures For Hard Magnetic Applications
	<b>L. Cuchet</b>	<b>A. Hunze</b>		<b>P. Toson</b>
17.45	Inter-Grain Tunelling In Half-Metallic Double Perovskites With High-Tc	Bi <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> Electronic Structure And Individual Sublattice Properties Probed By Magneto-Optical Spectroscopy	<i>Invited: P. McGuinness</i>  <b>Permanent Magnet Activities Supported by the EU</b>	Temperature Dependent Phase Transformations And Magnetic Behavior Of FePt-Based Nanocomposite Magnets
	<b>B. Fisher</b>	<b>M. Deb</b>		<b>O. Crisan</b>
18.00	Origin Of The Anisotropic GMR In Magnetic Multilayers	Performance Of Thin GMI Microsensors Based On Nanostructured Magnetic Multilayers	<i>Invited: P. McGuinness</i>  <b>Permanent Magnet Activities Supported by the EU</b>	Electronic Structure Calculations Of Materials With Increased Magnetic Anisotropy Energy
	<b>J. Camarero</b>	<b>E. Fernandez</b>		<b>A. Edstrom</b>
18.15	Antiferromagnetic Coupling And Temperature -Dependent Magnetization Reorientation In Perpendicular CoFeB/MgO/CoFeB	Electromagnetic Properties Of Ni Doped BaSrCo <sub>2-y</sub> Hexaferrites	<i>Invited: K. Ding</i>  <b>The Rare Earth Magnet Industry And Rare Earth Prices In China</b>	Hysteresis Modeling Of Isotropic And Anisotropic NdFeB Magnets
	<b>R. Gareev</b>	<b>C. Stergiou</b>		<b>M. F. de Campos</b>
18.30	Multifunctional Organic Spintronic Device Acting As A Magnetically Enhanced Memristor	Natural Domain Wall Oscillator	<i>Invited: K. Ding</i>  <b>The Rare Earth Magnet Industry And Rare Earth Prices In China</b>	Nd <sub>2</sub> Fe <sub>4</sub> B Particles Produced By Planetary Ball Milling Of HDDR Powders
	<b>A. Riminucci</b>	<b>Ch. Murapaka</b>		<b>S. Laureti</b>
18.45	Annealing Study Of Spin-Orbit Torques In Perpendicularly Magnetized Ta/CoFeB/MgO Layers	Estimation Of Permeability Tensor And Dielectric Permittivity Of Ferrites Using A Wave Guide Method Under A DC Magnetic Field	<i>Invited: K. Ding</i>  <b>The Rare Earth Magnet Industry And Rare Earth Prices In China</b>	The Role Of Oxygen On The Recyclability Of Sintered NdFeB Magnets Using Hydrogen
	<b>C. O. Avci</b>	<b>M. Pissas</b>		<b>A. Walton</b>
JUPITER ROOM				
19.00 - 19.30	<b>Anne de Baas</b> PhD, MBA Programme Officer- EC NMP-Materials: Horizon 2020 - Opportunities in Magnetism			Chair: <b>D. Niarchos</b>
19.30 - 21.00	<b>POSTER SESSION - B</b> <i>During Poster Session Buffet Dinner will be served</i>			

# WEDNESDAY 28 AUGUST Morning session

09.00	<b>Room JUPITER</b> Chair: <b>G. Hadjipanayis</b> Plenary Speaker: <b>K. Krishnann</b> Magnetic Particle Imaging For Cardiovascular Angiography And Molecular Imaging			
09.45	<b>Room JUPITER</b> Chair: <b>O. Kalogirou</b> Semiplenary Speaker: <b>F. Gazeau</b> Nanomagnetism in the living environment: Biotransformation of magnetic nanoparticles and impact for imaging and therapeutic applications	<b>Room DELPHI</b> Chair: <b>F. Albertini</b> Semiplenary Speaker: <b>T. Jungwirth</b> Antiferromagnetic Spintronics		
	<b>Coffee break</b>			
	<b>Room SALON DE ROSES A</b> SYMPOSIUM 5.4 Chair: <b>P. Viorel</b>	<b>Room SALON DES ROSES B</b> SYMPOSIUM 2.1 Chair: <b>Y. Melikhov</b>	<b>Room DELPHI</b> SYMPOSIUM 8.1 Chair: <b>D. Stamopoulos</b>	<b>Room NEFELI</b> SYMPOSIUM 3.4 Chair: <b>R. Wiesendanger</b>
11.00	Invited: <b>V. Repain</b> <b>Magnetization Reversal In Self-Organized Epitaxial Magnetic Nanodots</b>	Invited: <b>K. Buchanan</b> <b>The Formation And Dynamics Of Magnetic Vortices And Antivortices</b>	Invited: <b>J. Forcada</b> <b>Biocompatible Magnetic Nanogels For Cells Delivery</b>	Invited: <b>C. Felser</b> <b>Tetragonal Heusler Compounds For Spintronics And Beyond</b>
11.30	Mixing antiferromagnets to tune NiFe-(IrMn/FeMn) interfaces and related TA-MRAM exchange bias dispersions <b>K. Akmaldinov</b>	Identification And Motion Of Domain Walls In Cylindrical Nanowires <b>O. Fruchart</b>	Invited: <b>T. Pellegrino</b> <b>Highlighting Some MAGNIFYCO Project Results: Iron Oxide Nanocubes As Heat Mediators For Combining Hyperthermia Treatment With Drug Delivery</b>	Antiferromagnets For Spintronics Applications: Spin-Orbit Coupling Effects <b>S. Khmelevskiy</b>
	Focused Kerr Measurements On Patterned Arrays Of Exchange Biased Square Dots <b>G. Vinai</b>	Magnetization Dynamics Of Patterned Array Of Permalloy Eclipses <b>R. Dutra</b>		Half-Metallic BCC Multicomponent Alloys Based On Iron <b>A. Go</b>
12.00	Effect Of Grain Cutting In Exchange Biased Nanostructures <b>R. Carpenter</b>	Domain Wall Tilting In Magnetic Tracks In The Presence Of Dzyaloshinskii-Moriya Interaction <b>O. Boule</b>	On Chip Magnetic Platform For Single Particle Delivery And Particle Transit Monitoring <b>M. Cantoni</b>	Study Of The Structure Influence On The Magnetism Of The Fe <sub>70</sub> Al <sub>30-x</sub> Si <sub>x</sub> Alloys <b>E. Legarra</b>
	Anisotropy Dependence Of Magnetic Coupling In Hard/Soft Co/Py Bilayer Antidot Arrays <b>R. Perez</b>	Engineering Ultrafast Magnetism <b>I. Radu</b>	Magnetic Classifier (Magcla): A Proof Of Concept <b>P. Augusto</b>	Finite Temperature Magnetism from First Principles <b>L. Szunyogh</b>
12.30	Interface-Mediated Exchange-Bias In Fluorescent ZnO-Fe@Fe <sub>x</sub> O <sub>y</sub> Colloidal Hybrid Nanocrystals <b>A. Kostopoulou</b>	Excess Coercivity And Domain Wall Motion With Exchange Bias <b>M. Marioni</b>	Iron Nanowires Incorporated Into A PDMS Membrane <b>A. Alfadhel</b>	Magnetic Field-Induced Ultrasharp Magnetization Jumps In La <sub>0.9</sub> Ce <sub>0.1</sub> Fe <sub>12</sub> B <sub>6</sub> Intermetallic Compound <b>D. L. V. Birane</b>
	L <sub>10</sub> Tetragonal Phase In Continuous And Nanopatterned Fe-Pd Films <b>P. Tiberto</b>	Domain Growth And Dipolar Bias In Magnetic Thin Films Coupled To A Periodic Pinning Potential <b>R. Novak</b>	Maghemite Nanoclusters: Static, Dynamic Magnetic Properties And Monte Carlo Simulations <b>K. Brintakis</b>	Influence Of Electrodeposition Frequency And Waveform On The Alloy Composition And Magnetic Properties Of CoNi Nanowire Arrays <b>A. Samardak</b>
13.00	<b>BREAK</b>			

# WEDNESDAY 28 AUGUST Afternoon Session

15.45	<b>Coffee break</b>			
16.15	<b>Room JUPITER</b> Chair: <b>S. Yuasa</b> Plenary Speaker: <b>T. Rasing</b>			
	Femtosecond All-Optical Control Of Magnetism At The Nanoscale			
	<b>Room SALON DE ROSES A</b>	<b>Room SALON DES ROSES B</b>	<b>Room DELPHI</b>	<b>Room NEFELI</b>
	<b>SYMPOSIUM 5.5</b>	<b>SYMPOSIUM 2.2</b>	<b>SYMPOSIUM 8.2</b>	<b>SYMPOSIUM 3.5</b>
	Chair: <b>St. McVitie</b>	Chair: <b>P. Tejada</b>	Chair: <b>A. Kostopoulou</b>	Chair: <b>D. Legut</b>
17.00	<i>Invited: D. Gatteschi</i>  <b>Lanthanides In The Frame Of Molecular Magnetism</b>	<i>Invited: A. Manchon</i>  <b>Theory Of Spin-Orbit Coupled Transport In Magnetic Bilayers</b>	<i>Invited: A. Roig</i>  <b>Engineering Iron Oxide Nanoparticles For Applications In Nanomedicine: MRI and Cell Therapies</b>	<i>Invited: B. Fokwa</i>  <b>New Magnetic Borides Containing Planar B6 Rings: Experiment And Theory</b>
17.30	Short-Range Correlations In D-F Cyanide-Bridged Assemblies	Dynamics Of Topological Solitons In Perpendicular Magnetic Anisotropy Nanostructures	Origins Of Magnetic Hyperthermia	Structure And Magnetic Properties Of Hf <sub>2</sub> (Co <sub>1-x</sub> Fe <sub>x</sub> ) <sub>11</sub> B Melt-Spun Alloys
	<b>S. Grecea Tanase</b>	<b>C. Moutafis</b>	<b>K. O'Grady</b>	<b>M. Gjoka</b>
17.45	Room Temperature Photo-magnetic Molecular Switches: Transition Metal Complexes With Photoactive Ligands	Micromagnetic simulation of a ferromagnetic particle	Can AC Magnetic Hyperthermia Be Exploited In Commercial Ferrofluids Addressing Diverse Biomedical Aspects?	Effect Of Fe Addition On Magnetic Properties Of Mn Based Mn <sub>49</sub> Ni <sub>42-x</sub> Sn <sub>9</sub> Fe <sub>x</sub> Metamagnetic Shape Memory Alloys
	<b>M. Khusniyarov</b>	<b>K. Efthimiadis</b>	<b>M. Angelakeris</b>	<b>M. Şaşmaz</b>
18.00	Surface Mobility Tuning Of Nanostructured Self-Organization: From Mound Formation To Step Flow Growth	Comparing Thermal Escape Rates Of Graded Media And Single Phase Grains With Forward Flux Sampling	Induced Cell Toxicity Originates Dendritic Cell Death Following Magnetic Hyperthermia Treatment	Structural And Magnetic Properties Of The Heusler Compounds Mn <sub>2</sub> FeGa And Fe <sub>2</sub> MnGa
	<b>Z. Konstantinovic</b>	<b>C. Vogler</b>	<b>G. Goya</b>	<b>A. Nayak</b>
18.15	Organic/Ferromagnetic Interfaces Of Interest In Memristors: A Chemical Characterization By Photoemission Spectroscopy	Energy Barriers In Circular Ferromagnetic Nanodots	Magnetic Nanaoparticles Synthesized By Chemical Slicing Method	In Plane And Out Of Plane Magnetic Properties In Ni <sub>46</sub> Co <sub>4</sub> Mn <sub>38</sub> Sb <sub>12</sub> Heusler Ribbons
	<b>I. Bergenti</b>	<b>K. Gusliyenko</b>	<b>L. W. Siang</b>	<b>S. Roshnee</b>
18.30	Magnetic Coupling Of Porphyrin Molecules Through Graphene	Calculating Ultrafast Demagnetization On The Ab Initio Level: Fundamental Issues	CoZn-Ferrite Nanoparticles For Magnetic Fluid Hyperthermia	Non-Collinear Magnetism And A Spin Crossover In Mn <sub>2</sub> RhSn Heusler Compound
	<b>M. Bernien</b>	<b>K. Carva</b>	<b>K. Zaveta</b>	<b>O. Meshcheriakova</b>
18.45	Novel Skyrmion States In Nanowires Of Chiral Magnets	Probing Nanowire Edge Roughness Using An Extended Magnetic Domain Wall	Collaps Of Protein Macromolecule Induced By A Force As An Analog Of Remagnetization	Intermartensitic Transitions In Magnetic Shape-Memory Alloys
	<b>A. Leonov</b>	<b>R. Stamps</b>	<b>E. Meilikhov</b>	<b>A. Cakir</b>
20.00-23.00	<b>CONFERENCE DINNER</b>		Keynote Speaker: <b>Stuart Parkin</b>	Spin or Nano?

# THURSDAY 29 AUGUST Morning session

09.00	<b>Room JUPITER</b> Chair: <b>I. Schuller</b> Plenary Speaker: <b>S. Yuasa</b> Future prospects of magnetoresistance, spin manipulation technology and their applications to novel spintronic devices			
09.45	<b>Room JUPITER</b> Chair: <b>F. Futamoto</b> Semiplenary Speaker: <b>W. Wernsdorfer</b>	<b>Room DELPHI</b> Chair: <b>S. Pantelides</b> Semiplenary Speaker: <b>A. Maignan</b>		
	Molecular Quantum Spintronics Using Single-Molecule Magnets	Search For New Magneto(di)electrics: The Case Of Some Oxides With Magnetic Frustration		
10.30	<b>Coffee break</b>			
	<b>Room SALON DE ROSES A</b>	<b>Room SALON DES ROSES B</b>	<b>Room DELPHI</b>	<b>Room NEFELI</b>
	<b>SYMPOSIUM 5.6</b>	<b>SYMPOSIUM 2.3</b>	<b>SYMPOSIUM 7.1</b>	<b>SYMPOSIUM 9.1</b>
	Chair: <b>F. Futamoto</b>	Chair: <b>K. Carva</b>	Chair: <b>St. Lee</b>	Chair: <b>Sv. Sofronova</b>
11.00	Invited: <b>F. Donati</b> <b>Magnetism Of Single Co Atoms On Graphene</b>	Invited: <b>M. Noske</b> <b>Spin Wave Mediated Switching Of The Vortex Core Within 100 Picoseconds And Below</b>	Invited: <b>E. Zeldov</b> <b>NanoSquid -On-Tip: Towards Scanning Magnetic Microscopy With Single Spin Sensitivity</b>	Invited: <b>C. Zhenxiang</b> <b>Spin Reorientation, Dielectric Relaxation And Magnetocapacitance Effect In Novel Magneto-electric Systems</b>
11.30	High Resolution Lorentz Microscopy Studies Of The Magnetic Domain Structure Of LSMO Films On STO Substrates	Thermally Assisted All-Optical Helicity Dependent Magnetic Switching In $Fe_{100-x}TB_x$ Films	Invited: <b>V. Pomjakushin</b> <b>Crystal And Magnetic Structures And Phase Coexistence In Superconducting Iron Chalcogenides <math>A_yFe_{2-x}Se_2</math> (A=K, Cs, Rb)</b>	Invited: <b>J. Fontcuberta</b> <b>Phase-Coexistence And Short-Range Magnetic Order In Magnetic Multiferroics</b>
	<b>K. O'Shea</b>	<b>A. Hassdenteufel</b>		
11.45	The Importance Of Crystal Structure On Magnetic Ordering In Rare-Earth-Transition-Metal Laminates	Exchange interactions in collinear and non-collinear magnets		
	<b>G. Scheunert</b>	<b>A. Szilva</b>		
12.00	Absence Of An Induced Magnetic Moment In Pt On $Y_3Fe_5O_{12}$ (YIG)	On The Role Of The Magnetization Compensation Point In All-Optical Magnetization Switching	Magnetically-Active Ionic Memristors	Magnetoelectric Coupling In A Ferroelectric/Ferromagnetic Chain Revealed By Ferromagnetic Resonance
	<b>M. Opel</b>	<b>L. Le Guyader</b>	<b>A. Ruotolo</b>	<b>A. Sukhov</b>
12.15	Fine Tuning Of Electron Distributions In 3d And 4d Transition Metal Oxides By Strain And Interface Engineering	Magneto-Optical System For The Study Of Picosecond Magnetization Processes	Mott-Insulating And High-Tc Superconducting States Arising From Strong Correlations In Alkali Fullerenes	Super Spin Mediated Giant Exchange Bias In Multiferroic Nanocomposite
	<b>D. Pesquera</b>	<b>M. Logunov</b>	<b>D. Arcon</b>	<b>M. Tuhin</b>
12.30	Magnetic Hysteresis And Spin Configuration In Magnetostatically Interacting Multilayered Nanodisks	Optical Manipulation Of The Exchange-Spin-Spin Interaction On Sub-Picosecond Timescale	Interlayer Magnetoresistance Of Monoaxial Chiral Magnet	Signatures Of Magnetic Chirality In The Geometrically Frustrated $Ba_3NbFe_3Si_2O_{14}$
	<b>A. Ognev</b>	<b>R. V. Mikhaylovskiy</b>	<b>T. Yoshihiko</b>	<b>A. Zorko</b>
12.45	Micromagnetics Of Three Dimensional Magnetic Domain Walls In Cylindrical Nanostructures	Gilbert Damping Constant Of FePd Thin Film	I-V Characteristics Of Engineered And Non-Engineered Superconducting Film	Persistent Spin Dynamics And Multiferroicity In Frustrated $FeTe_2O_5Br$
	<b>C. Ferguson</b>	<b>T. Kawai</b>	<b>M. Kamran</b>	<b>P. Matej</b>
13.00	<b>Break</b>			

# THURSDAY 29 AUGUST Afternoon session

15.45	Coffee break			
	Room SALON DE ROSES A	Room SALON DES ROSES B	Room DELPHI	Room NEFELI
	SYMPOSIUM 8.3	SYMPOSIUM 2.4	SYMPOSIUM 7.2	SYMPOSIUM 9.2
	Chair: <b>M. Angelakeris</b>	Chair: <b>M. Pissas</b>	Chair: <b>E. Pomjakushina</b>	Chair: <b>A. Douvalis</b>
16.15	<i>Invited: C. Binns</i> <b>Gas-Phase Preparation Of Core-Shell Nanoparticles For Magnetic Hyperthermia</b>	<i>Invited: St. Komineas</i> <b>Magnetic Vortex-Antivortex Dipoles In Spin-Transfer Oscillators</b>	<i>Invited: St. Lee</i> <b>Revisiting The Vortex Phase Diagram Of <math>\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}</math></b>	<i>Invited: J. Van der Brink</i> <b>Spin-Orbital Separation In The Quasi-One-Dimensional Mott Insulator <math>\text{Sr}_2\text{CuO}_3</math></b>
16.45	Composite $\text{ZnO-Fe}_3\text{O}_4$ Nanostructures With Multifunctional Properties <b>F. Casoli</b>	Contribution Of Magnetic Circular Dichroism In Helicity-Dependent All-Optical Magnetization Switching <b>A. Tsukamoto</b>	Quartets Of Order Parameters In Domes Preventing Quantum Critical Points And In Correlated Nanostructures <b>G. Varelogiannis</b>	Origin Of Strain-Induced Ferromagnetism In Domain Walls Of Multiferroic $\text{TbMnO}_3$ Thin Films <b>C. Magen</b>
17.00	Highly Efficient Heat Dissipation In Monodisperse Iron Oxide Nanoparticles <b>F.J. Teran Garcinuno</b>	Ferromagnetic Resonance Response Of Thin Films With One-And Two-Dimensional Patterned Arrays Of Periodic Perturbations <b>R. Gallardo</b>	Charge Order And Magnetic Exchange Bias Associated With Phase Separation In Underdoped $\text{La}_2\text{CuO}_{4+x}$ <b>Z. Viskadourakis</b>	Double-Layered Monopolar Order In $\text{Tb}_2\text{Ti}_2\text{O}_7$ Spin Liquid <b>A. Gukasov</b>
17.15	Structural Modification And Self-Assembly Of Nanoscale Magnetite Synthesised In The Presence Of An Anionic Surfactant <b>M. Sharali</b>	Contribution Of Peierls Relief To The Dynamics Of Domain Walls In Metal-Organic Compounds <b>R. Morgunov</b>	Irreversibility, Remanent Magnetization, And Griffiths Phases In $\text{Sm}_{0.1}\text{Ca}_{0.9}\text{MnO}_3$ Nanoparticles <b>V. Markovich</b>	Solitons In A Composite Multiferroic Chain <b>L. Chotorlishvili</b>
17.30	Photothermal Microscopy And Magnetophoresis Of Superparamagnetic Iron Oxide Nanoparticles In Cells <b>L. Bogart</b>	Jiles-Atherton Theory For Systems With First Order Phase Transition <b>Y. Melikhov</b>	Co-Nb-Co Trilayers As Efficient Cryogenic Supercurrent Switches <b>D. Stamopoulos</b>	Single Domain Spin Manipulation By Electric Fields In Strain Coupled Artificial Multiferroic Nanostructures <b>M. Buzzi</b>
17.45	Blood Pressure Sensor Based On Ferromagnetic Resonance Of Magnetic Microwires <b>P. Marin</b>	Thermal Transport By Reciprocal And Non-Reciprocal Magnons <b>V. Vasyuchka</b>	Field-Induced Long-Range Order In The Spin-Singlet Ground State System $\text{YbAl}_3\text{C}_3$ <b>D. Khalyavin</b>	Local Probing Of Multiferroics By First-Principles Calculations Of Hyperfine Parameters <b>J. N. Gonçalves</b>
18.00	Comparative evaluation of AC magnetic hyperthermia efficiency of ferrite-based magnetic nanoparticles <b>D. Sakellari</b>	Ultrahot Bose-Einstein Magnon Condensate In A Phase Space <b>A. Serga</b>	Electronic Structure And Chemical Bonding Of Uranium Dioxide Within The Hubbard I Approximation <b>D. Iusan</b>	Multiferroics Under Pressure Studied By Neutron Diffraction <b>I. Mirebeau</b>
18.15		Switching Of The Spin Circulation In Linear Arrays Of Tapered Magnetic Nanodisks <b>M. Urbanek</b>	Polarons In Metallic Low-Silica X Zeolites <b>P. Jeglic</b>	Strongly Disordered Heisenberg Spin-1/2 Chains: An NMR Approach <b>T. Shiroka</b>
19.00 - 21.00	<b>POSTER SESSION - C</b> <i>During Poster Session Buffet Dinner will be served</i>			



# FRIDAY 30 AUGUST Morning session

08.30	<b>Room JUPITER</b> Chair: <b>J. Fidler</b> Plenary Speaker: <b>O. Hellwig</b> Future Trends In HDDs And Magnetic Recording Media			
09.15	<b>Room JUPITER</b> Chair: <b>L. Lewis</b> Semiplenary Speaker: <b>L. Schultz</b>	<b>Room DELPHI</b> Chair: <b>A. Lappas</b> Semiplenary Speaker: <b>J. Ruzs</b>		
	Superconducting Levitation On A Permanent Magnet Track - The SupraTrans test facility -	Magnetic Materials By Design		
10.00	<b>Coffee break</b>			
	<b>Room SALON DE ROSES A</b>	<b>Room SALON DES ROSES B</b>	<b>Room DELPHI</b>	<b>Room NEFELI</b>
	<b>SYMPOSIUM 5.7</b>	<b>SYMPOSIUM 7.3</b>	<b>SYMPOSIUM 2.5</b>	<b>SYMPOSIUM 9.3</b>
	Chair: <b>S. Lewinska</b>	Chair: <b>A. Slawska-Waniewska</b>	Chair: <b>K. O'Grady</b>	Chair: <b>I. Mirebeau</b>
10.30	Invited: <b>J. Camarero</b> <b>Imaging Magnetization                  Reversal Of Interfacial                  Exchange Coupling</b>	Invited: <b>S. Wurmehl</b> <b>Single Crystal Growth                  And Characterization Of                  Superconducting LiFeAs                  And Its Doping Variants</b>	Invited: <b>O. Tretiakov</b> <b>Domain-Wall Dynamics                  In Ferromagnets And                  Antiferromagnets</b>	Invited: <b>A. Volodin</b> <b>Magnetoelectric                  Response Of Multiferroic                  Thin YbMnO Films                  Measured By Low-                  Temperature Electrostatic                  Force Microscopy</b>
11.00	Combinatorial Epitaxial Strained Fe-Pd Films On Cu-Au Layers For Tuning Magnetic Properties	Invited: <b>S. Pantelides</b> <b>Ferromagnetism In                  Complex Transition-                  Metal-Oxide Structures</b>	High Energy Surface Spin Waves Of Ultra-Thin Ferro- magnetic Films	Non-Equilibrium Dynamics In The Inhomogenous Splayed Ferromagnetic Phase Of The Quantum Spin Ice $\text{Yb}_2\text{Sn}_2\text{O}_7$
	<b>S. Kauffmann-Weiss</b>		<b>R. Jayaraman</b>	<b>J. Lago</b>
11.15	XAS/XMCD Studies Of Ga+ Ions Irradiated Pt/Co/Pt Trilayers		Effect Of The Annealing Temperature On Dynamic And Structural Properties Of $\text{Co}_2\text{FeAl}$ Thin Films	Electrical Switching Of The Magnetic Order Of The The $\text{Fe/BaTiO}_3$ Interface
	<b>P. Mazalski</b>		<b>S. Murad Cherif</b>	<b>G. Radaelli</b>
11.30	Magnetic Properties Of Self-Organized Cr Oxide Monolayers On $\text{Fe}(001)$	Thermoelectric Properties Of The Kondo Insulator $\text{CeRu}_4\text{Sn}_6$ Under Magnetic Field	Spin-Torque Ferromagnetic Resonance Study In Co/Ni Multilayers	Hexagonal And Perovskite-Like Multiferroic Thin $\text{YbMnO}_3$ Films
	<b>G. Berti</b>	<b>V. Martelli</b>	<b>T. Moriyama</b>	<b>Y. Mukovskii</b>
11.45	Straining Epitaxial Fe-Co Thin Films To Increase Magnetocrystalline Anisotropy	Magnetic Contribution To The Heat Capacity Of $\text{CeNi}_4\text{Cr}$	Influence Of The Dzyaloshinskii-Moriya Inter- action Of The Spin-Wave Spectra Of Thin Films	Magnetostructural Phase Separation Induced By Geometrical Frustration
	<b>R. Ludwig</b>	<b>M. Reiffers</b>	<b>P. Landeros</b>	<b>O. Adamopoulos</b>
12.00	Tuning The Magnetic Coupling Of $\text{FePc/Co}(001)$ By Adlayers	The Influence Of Magnetic Inhomogeneous State On Magnetothermopower Of $\text{Sm}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ Manganites	Simultaneous STXM Imag- ing And Resistance Meas- urements Of Trilayer Vortices	Magnetic And Ferroelectric Transitions In $\text{Mn}_{1-x}\text{Co}_x\text{WO}_4$ Multiferroics With Conical Antiferromagnetic Order ( $x > 0.15$ )
	<b>H. Herper</b>	<b>L. Koroleva</b>	<b>A. Banholzer</b>	<b>J. L. García-Muñoz</b>
12.15	Domain Structure And Con- ducting Properties Of Thin NiFe Films Deposited On YIG And Si Insulators	High Pressure Electrical Resistivity Of The Kondo Insulator Compound $\text{CeRu}_4\text{Sn}_6$	Magnetization Dynamics Of Multilayered Rare Earth (Re)- Transition Metal (Tm) Structures	Spin Dynamics In The Spin-1/2 Triangular -Lattice Antiferromagnet $\text{Cs}_2\text{CuBr}_4$
	<b>V. Gornakov</b>	<b>J. A. Larrea J.</b>	<b>Y. Tsema</b>	<b>S. Zvyagin</b>
<b>Closing Ceremony JUPITER ROOM</b>				
12.30	<b>S. Bader</b>	Spintronics -Implications For Energy, Information And Medical Technologies		
13.00	Organizing Committee Awards			
13.15	<b>D. Niarchos</b>	Statistics		
13.30	<b>D. Givord-D. Fiorani</b>	New Chairman of JEMS IAC		<b>JEMS 2016 GLASGOW-2016</b>