

## Day wise Program Schedule-ICMAGMA2023-

04 December 2023 (Monday)				
Time (Hrs)	Session Details			
08:00-09:00	Registration in Prince (P) Hall			
09:00-10:00	Inaugural Session in Prince (P) Hall			
10:00-10:30	Opening of Exhibition + Group Photo + High Tea			
10:30-11:10	Golden Jubilee Lecture (Hall P)	10:30-11:10	<b>GJL: Prof. Kazuhiro Hono:</b> Permanent Magnet Materials Research at NIMS	
11:15-12:45	Plenary Session 01 (Hall P)	11:15-11:45	<b>PL01: Dr. S.M. Yusuf:</b> Quantum Magnetism in Low Dimensional Spin Systems	
		11:45-12:15	<b>PL02: Dr. R. Gopalan:</b> Opportunities and Challenges in Rare Earth Magnets for Electric Vehicle and Other Applications	
		12:15-12:45	<b>SPR01: Dr. V. Vaithianathan:</b> Manufacturing routes for high quality parts utilizing vacuum processes	
13:00-14:00	Lunch			
13:30-15:00	Poster Session 01 (C, D, I) & Tea/Coffee			
15:00-18:00	Parallel Session 01			
		<b>Hall P (Topic B)</b>	<b>Hall D1 (Topic C)</b>	<b>Hall D2 (Topic D)</b>
	15:00-15:25	<b>ITB01: Dr. Peter Fischer:</b> Advanced magnetic X-ray spectro-microscopy of novel topological spin textures	<b>ITC01: Prof. Yuya Sakuraba:</b> Electronic band tuning in Heusler alloy-based Weyl semimetal for new sensing applications	<b>ITD01: Dr. Vincent Fournee:</b> Structural and magnetocaloric properties of FeMnNiSiGe high-entropy alloys
	15:25-15:50	<b>ITB02: Prof. P. S. Anil Kumar:</b> Extremely energy-efficient, magnetic field-free, skyrmion-based memristors for neuromorphic computing	<b>ITC02: Prof. Tamalika Banerjee:</b> Designing magnetoelectric order in complex oxide thin films for energy efficient devices	<b>ITD02: Prof. A. Perumal:</b> Tunable entropy stabilized systems: Ambient synthesis, phase stability, and harnessing chemical disorder for energy harvesting and future magnetoelectronic applications
	15:50-16:15	<b>ITB03: Prof. Hyunsoo Yang:</b> THz spin dynamics and magnon currents in antiferromagnetic heterostructures	<b>ITC03: Prof. S. Srinath:</b> Magnetic anisotropy and Magnetization reversal in Heusler alloy thin films	<b>ITD03: Prof. R. Mahendiran:</b> Magnetoimpedance in metallic and insulating oxides

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	16:15-16:40	<b>ITB04:Prof. Subhankar Bedanta:</b> Spin to charge conversion with various antiferromagnetic systems	<b>ITC04: Prof. J. Suryanarayana:</b> Spin transfer torque bias (STTB) and Dzyaloshinskii–Moriya interaction effect in Fe based Inverse Heusler alloy thin films	<b>ITD04: Prof. R. Nirmala:</b> Magnetocaloric effect in rare earth compounds
	16:40-16:50	<b>Break</b>		
	16:55-17:07	<b>OTB01</b>	<b>OTC01</b>	<b>OTD01</b>
	17:07-17:19	<b>OTB02</b>	<b>OTC02</b>	<b>OTD02</b>
	17:19-17:31	<b>OTB03</b>	<b>OTC03</b>	<b>OTD03</b>
	17:31-17:43	<b>OTB04</b>	<b>OTC04</b>	<b>OTD04</b>
	17:43-17:55	<b>OTB05</b>	<b>OTC05</b>	<b>OTD05</b>
	18:00-18:45	<b>MSI Executive Meeting (Hall D1)</b>		
	19:00-21:00	<b>Cultural Program &amp; Dinner (Lime Light)</b>		

05 December 2023 (Tuesday)				
Time (Hrs)	Session Details			
09:00-10:30	Plenary Session 02 (Hall P)	09:00-09:30	<b>PL03:Prof. Hari Srikanth:</b> Thermo-Spin transport in Heusler alloy based spin gapless semiconductors	
		09:30-10:00	<b>PL04:Prof. Brendan J. Kennedy:</b> Structural and Magnetic Phase Transitions in Compositionally Simple Oxides: Using neutron scattering to observe both the obvious and not-so-obvious changes	
		10:00-10:30	<b>PL05: Prof. Tomoyasu Taniyama:</b> Artificial multiferroic multilayers for spintronic applications	
10:30-11:00	Tea/Coffee			
11:00-13:00	Parallel Session 02			
		Hall P (Topic F)	Hall D1 (Topic G,H)	Hall D2 (Topic J)
	11:00-11:25	<b>ITF01: Prof. Axel Hoffmann:</b> Hybrid Magnon Modes	<b>ITG01:Prof. Franca Albertini:</b> Magnetic shape memory Heuslers for energy and biomedical applications	<b>ITJ01: Dr. Bhaskar Majumdar:</b> Opportunities and Challenges in Productionisation of Nano-crystalline Advanced Soft Magnetic Alloy

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	11:25-11:50	<b>ITF02:Prof. K. G. Suresh:</b> Experimental and theoretical investigations on the spintronic and topological aspects of certain equiatomic Heusler alloys	<b>ITG02:Dr. R.S. Shinde:</b> Recent advances in Magnetic levitation Technology for Emerging applications in Research & Industry for the 21 <sup>st</sup> Century	<b>ITJ02: Dr. Gaurav Shukla:</b> Strategies, Possibilities and Challenges for NdFeB Magnet Manufacturing in India
	11:50-12:15	<b>ITF03:Dr. Javier Campo:</b> Chiral Magnets with Dzyaloshinskii-Moriya Interaction	<b>ITH01: Prof. M. Mahendran:</b> Modeling of Vibration Suppression behavior of FSMA Polymer Composite	<b>ITJ03:Shri. Saurabh Kr. Shakya:</b> Characterization of Soft Magnetic Materials; Past, Present and Future
	12:15-12:27	<b>OTF01</b>	<b>OTK01</b>	<b>OTJ01</b>
	12:27-12:39	<b>OTF02</b>	<b>OTG01</b>	<b>OTH01</b>
	12:39-12:51	<b>OTF03</b>	<b>OTG02</b>	<b>OTH02</b>
	12:51-13:03	<b>OTF04</b>	<b>OTG03</b>	<b>OTH03</b>
<b>13:00-14:00</b>	<b>Lunch</b>			
<b>13:30-15:00</b>	<b>Poster Session 02 (B, E, F) &amp; Tea/Coffee</b>			
<b>15:00-18:30</b>	<b>Parallel Session 03</b>			
		<b>Hall P (Topic B)</b>	<b>Hall D1 (Topic C,D)</b>	<b>Hall D2 (Topic E)</b>
	15:00-15:25	<b>ITB05:Prof. Mitani Seiji:</b> Recent progress in tunnel magneto-resistance	<b>OD:</b> Invited Talk from M/s Quantum Design, India	<b>NETZ: Dr. Anton Benjamin:</b> Invited Talk from M/s NETZSCH, India
	15:25-15:50	<b>ITB06:Prof. Ashwin A. Tulapurkar:</b> Orbital current generation and ways to enhance the spin-orbit torque efficiency	<b>ITC05:Prof. Puneet Sharma:</b> Realization of perpendicular oriented screen printed barium hexaferrite thick films through optimal control of particle size	<b>ITE01:Dr. Tapati Sarkar:</b> Interfacially coupled magnetic nanocomposites
	15:50-16:15	<b>ITB07:Prof. Karthik V. Raman:</b> Probing Interfacial spin texture by Planar Hall response	<b>ITD05:Dr. Alexey Lukoyanov:</b> Large exchange bias in a nearly compensated ferrimagnet Mn <sub>2</sub> PtAl	<b>ITE02:Dr. B.B. Lahiri:</b> Alternating Magnetic field Induced Heating in Magnetic Nanofluids
	16:15-16:40	<b>ITB08:Dr. Ajaya Kumar Nayak:</b> Stabilization of Merons / Antimerons in D2d Symmetric Mn-Pt(Pd)-Sn-In System	<b>ITD06:Prof. R. Ezhil Vizhi:</b> Approaching an Advanced Trends in Functional materials: Fundamentals to Applications	<b>ITE03:Dr. Bhagwati Prasad:</b> Fabrication of All-Oxide MTJs via Focused Ion Beam Nanomachining
	16:40-16:55	<b>Break</b>		

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	16:55-17:07	OTB06	OTC06	OTE01
	17:07-17:19	OTB07	OTC07	OTE02
	17:19-17:31	OTB08	OTC08	OTE03
	17:31-17:43	OTB09	OTD06	OTE04
	17:43-17:55	OTB10	OTD07	OTE05
	17:55-18:07	OTB11	OTD08	OTE06
	18:19-18:31	OTA06	OTD09	OTA08
	18:31-18:43	OTA07	OTD10	OTA09
	18:44-18:56		OTA05	
	19:30-21:00	Dinner (Prince Street)		

06 December 2023 (Wednesday)				
Time (Hrs)	Session Details			
09:00-10:30	Plenary Session 03 (Hall P)	09:00-09:30	PL06: Prof. Pedro Gorria: Unveiling the role of the carbon matrix and the microstructure in the magnetic behaviour of Ni nanoparticles.	
		09:30-10:00	PL07: Dr. Partha Ghosal: Advanced Structural Characterization for Magnetic Materials	
		10:00-10:30	PL08: Prof. Del Atkinson: Magnetic thin-films and multilayers: The role of interfaces and bulk variations on the magnetic and spintronic behaviour	
10:30-11:00	Tea/Coffee			
11:00-13:00	Parallel Session 04			
		Hall P (Topic F)	Hall D1 (Topic J)	Hall D2 (Topic A)
	11:00-11:25	ITF04: Prof. Martin Aeschlimann: Twisted light affects ultrafast demagnetization	ITJ04: Dr. Binoy K. Hazra: Seeded spin-orbit torque-induced magnetization switching of a thick non-collinear antiferromagnet	ITA01: Dr. Ranjan Kumar Singh: Enhancing operating temperature of Nd <sub>2</sub> Fe <sub>14</sub> B and Sm <sub>2</sub> Co <sub>17</sub> type Rare-Earth Permanent Magnets
	11:25-11:50	ITF05: Prof. V. Kanchana: Topological Quantum Phase in Strongly Correlated Magnetic Systems	ITJ05: Dr. Rohit Medwal: Controlling and probing spins	ITA02: Prof. K.G. Pradeep: Correlative microscopic analysis of Grain Boundary Engineered Nd-Fe-B melt-spun ribbon

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	<b>11:50-12:15</b>	<b>ITF06:Prof. Chandan Mazumdar:</b> Coexisting structural disorder and robust spin-polarization in FeMnVZ (Z = Al, Ga)	<b>SPR02:</b>	<b>ITA03:Dr. N.V. Rama Rao:</b> Indigenous development of NdFeB rare earth permanent magnets at DMRL
	<b>12:15-12:27</b>	<b>OTF05</b>	<b>OTI01</b>	<b>OTA01</b>
	<b>12:27-12:39</b>	<b>OTF06</b>	<b>OTI02</b>	<b>OTA02</b>
	<b>12:39-12:51</b>	<b>OTF07</b>	<b>OTI03</b>	<b>OTA03</b>
	<b>12:51-13:03</b>	<b>OTF08</b>	<b>OTI04</b>	<b>OTA04</b>
<b>13:00-14:00</b>	<b>LUNCH</b>			
<b>14:00-15:00</b>	<b>Poster Session 03 (A, G, H, J, K) &amp; Tea/Coffee</b>			
<b>15:30-17:00</b>	<b>Concluding Ceremony (Prince Hall)</b>			
	<b>Valedictory Function &amp; Award Distribution</b>			

## Day-wise Poster Presentation Schedule-ICMAGMA2023

	<b>Poster Session – 01 ( 04 December 2023, Abstract Category and ID wise )</b>
<b>Day-1</b>	<b>C. Magnetic Thin Films (D1-001 to D1-039)</b> <b>D. Functional Magnetic Materials (D1-040 to D1-090)</b> <b>I. Interdisciplinary Topics in Magnetism (D1-091 to D1-104)</b>
	<b>Poster Session – 02 (05 December 2023, Abstract Category and ID wise )</b>
<b>Day-2</b>	<b>B. Magnetic Recording, Memories and Spintronics (D2-001 to D2-045)</b> <b>E. Magnetic Particles and Nanostructures (D2-046 to D2-058)</b> <b>F. Fundamental Magnetic Properties &amp; Co-operative Phenomena (D2-059 to D2-100)</b>
	<b>Poster Session – 03 (06 December 2023, Abstract Category and ID wise )</b>
<b>Day-3</b>	<b>A. Soft and Hard Magnetic Materials (D3-001 to D3-043)</b> <b>G. Novel Magnetic Materials and Device Applications (D3-044 to D3-057)</b> <b>H. Modelling and Simulation in Magnetic Materials (D3-058 to D3-077)</b> <b>J. Magnet Industry and Products (D3-078)</b> <b>K. Additive Manufacturing of Magnetic Materials (D3-079 to D3-081)</b>