

Schedule

Time	Day-1 (25 Feb 2015, Wed)	Day-2 (26 Feb 2015, Thu)	Day-3 (27 Feb 2015, Fri)
08:15 - 8:45	Registration at outreach auditorium	Electronic Struct. & transport	Magnetism & Multi-Ferroicity
09:00 - 09:25	Inauguration	B. N. Dev: Elect. Struct. and transport in low-D structures in the dimensional crossover regimes	O. C. Kim: Inverse spin hall effect of anti-ferromag. MnIr in exch-biased NiFe/MnIr films
09:25 - 09:50	V. Venkatesan: Oxides for Electronics, Memory, Energy and Healthcare Applications	S. R. Barman: Electronic structure of quasicrystals	R. Mahendiran: Multiferroic Oxides
09:50 - 10:15		S. Nandi: Structure, magnetism and superconductivity in Fe-based superconductors.	Ratnamala Chatterjee: Smart Magnetic Multifunctional Materials in Micro- Nano regime
10:15 - 10:40	Ramgopal Rao: Convergence of Bio-Nano-Information Technologies in the Nanoelectronics Era	J S Wang: Transport in nanojunctions: non- eqbm. Green's function and master- eq. Approaches	Ashish Garg: In the quest for room temperature multiferroism
10:40 - 11:05		R C Budhani: Novel electronic phases and phase transitions at perovskite oxide interfaces	Ariando: Magnetic coupling via polar insulators
11:05 - 11:30	Tea Break	Tea Break	Tea Break
	Energy + Magn	Low-D Systems	Techniques
11:30 - 11:55	R N Basu: Solid Oxide Fuel Cell: Challenges in Materials Research and Technology Development	Pan Jisheng: X-ray Photoelectron Spectroscopy and its Application in 2D Material Characterization	Chong Haur Sow: A Focused Laser Beam: Useful Tool for Nanoscience Research
11:55 - 12:20	B. R. Mehta: Nanoscale characterization of Si-Graphene and CZTS nanorod based solar cell junctions	Dattatray Late: 2D Inorganic Layered Materials and Graphene composite for New Generation Field Emission Devices	Mukherjee Manas: Metrology using trapped ion
12:20 - 12:45	K. S. Narayan: Charge Generation and Transport Studies in Fullerene-free Efficient Bulk Heterojunction Polymer Solar Cells	B. K. Gupta: New Insight into Emerging Optical Bi-functionality of Europium-Complexed Luminescent Graphene Nanosheets for Strategic Applications	S K Bhadra: Efficient Solid and Hollow Core Microstructure Optical Fiber: Experimental Study and Realization of Technology
12:45 - 13:10	S. M. Yusuf: Temperature- and Magnetic-field-controlled Magnetization Reversal	Arindam Ghosh: Sensitizing atomically thin membranes to light	Concluding Remarks
13:10 - 14:15	Lunch Break	Lunch Break	Lunch
14:15 - 15:30	POSTER SESSION	POSTER SESSION	
15:30 - 16:00	Tea Break	Tea Break	
	Correlated Systems + energy	nano & soft materials & physics	
16:00 - 16:25	B.V.R. Chowdari: Nanomaterials for Electrodes in Lithium Ion Batteries	A. Ghatak: Manipulating liq.-sol. inter. to generate bio-inspired adhesion and locomotion in soft mat.	
16:25 - 16:50	Oh Choo Hiap: Ph-trans in circuit-QED lattices coupled to nitrogen-vacancy centres in diamond	Wang Zhisong: From Biomaterials to Nanoscale Track-Walking Motors	
16:50 - 17:15	Avinash Mahajan: Possible spin liq. behavior in a Cu-based low-dimensional system Sc ₂ Ga ₂ CuO ₇	J.A. van Kan: Mold fabrication via PBW for polymer nanofluidic lab on chip replication	
17:15 - 17:40	G. Baskaran: High temperature superconductivity in Silicene	K. Byrappa: Mild Hydrothermal Synthesis and Applications of Metal Oxide Nanocrystals	
17:40 - 18:05	Sanjeev Srivastava: quantum phase transition in PdNi alloys	Neeraj Khare: Cobalt ferrite nanostruct.: Invest. of role of stress/defects on mag. and opt. propert.	
18:30	Cultural program at outreach auditorium		
20:00	Banquet dinner at Lawns of Director's Bungalow		

25 February, 2015

26 February, 2015

27 February, 2015