



INTERNATIONAL CONFERENCE ON MULTIFUNCTIONAL OXIDE MATERIALS

ICMOM 2009

APRIL 16 – 18, 2009

Organized by: Department of Physics Himachal Pradesh University Shimla

PROGRAMME

16 April 2009

Registration:	8:30 – 9:30 hrs.
Inaugural Session:	9:30 – 11:00hrs
Welcome:	Dr. Mahavir Singh
Keynote Address:	Prof. S. B. Krupanidhi
Chief Guest Address	Prof. Sunil Kumar Gupta (Vice – chancellor HPU)
Vote of Thanks:	Dr. Nagesh Thakur

Hi - Tea:			11:05 – 11:30hrs
Session:1 Time: 11:30 – 13:30 Chairpersons:	Speaker	Lecture	Title of Talk
	Prof. L. Alff	IT 11:30 – 12:00	Ferrimagnetic double perovskite materials for spintronics
	Prof. I. Dass	IT 12:00 - 12:30	Charge ordering in manganites nanoparticles
	Dr. S. M. Yusuf	IT 12:30 – 13:00	Functional Oxide Nanomaterials: Magnetic Properties and Possible Applications
	Ms. Arpita Nath	OP 13:00 – 13:10	Optical response of metal oxide nanoparticles synthesized via pulsed laser ablation in water
	Dr. M.P. Chowdhury	OP 13:10 – 13:20	Field emission properties of vertically grown carbon nanowalls
	Ms. Kamalpreet Khun Khun	OP 13:20 – 13:30	Chemical synthesis, characterization and gas sensing properties of nanosized SnO ₂ powder
Lunch:			13:30 – 14:30hrs
Session:2 Time: 14:30 – 17:00 Chairpersons: Dr. S. M. Yusuf	Dr.A.K.Sharma	IT 14:30 – 15:00	Shock Wave Working of Materials: Test Methodologies
	Prof. R. P. Tandon	IT 15:00 – 15:30	Oxides for Technological Applications
	Dr. Ravi Kumar	IT 15:30 – 16:00	A review of spintronics materials and their applications
	Ms. Dolly Singh	OP 16:00 – 16:10	Effect of SHI on the optical and electrical properties of HDPE /carbon black composites
	Mr. Amar Srivastava	OP 16:10 – 16:20	Temperature Dependent Impedance Spectroscopy Studies of BiFe _{1-x} Zr _x O ₃ (x=0.0, 0.05) Thin Films
	Mr. Ajay Kaushal	OP 16:20 – 16:30	Effect of ZnO thickness in stable ZnO/MgO Multilayer thin films using pulsed laser deposition technique
	Dr. Anjana Dogra	OP 16:30-16:40	Irradiation effect on GMR Properties of CoCu/Cu Multilayers

	Dr. Atul Thakur	OP 16:40-16:50	Study of Ni-Zn-Co nanoferrites in UHF range
	Ms. Shailja Tiwari	OP 16:50-17:00	Growth and characterization of Fe ₃ O ₄ nano-structures on GaAs
Tea:			17:00-17:10
Poster Session {PS – I, All Nos.}	odd Poster Nos.}	17:10-18:30,	Poster Size: 1× 1 meter
Cultural Programme:			19:00 – 20:30
Dinner:			20:30 – 21:45hrs
		17 April 2009	
Session:3 Time: 9:00 – 11:20	Speaker	Lecture	Title of the talk
	Prof. S. I. Patil	IT 9:00 – 9:30	Role of synthesis route on the physical properties of Mn doped ZnO
	Prof. Naresh Padha	IT 9:30 – 10:00	Bandgap tailoring of some compound semiconductor materials for their use in optoelectronic and microwave device applications
	Dr. Mahavir Singh	IT 10:00 – 10:30	Interesting magnetic properties of nickel-zinc ferrite at nano level
	Dr. S. J. Patwe	OP 10:30 – 10:40	Structure and Magnetic property of multifunctional Bi ₇ Fe ₃ Ti ₃ O ₂₁
	Ms. Amandeep Kaur Bal	OP 10:40 – 10:50	Properties and sensor performance of thermally oxidized Zn films
	Dr. O.P. Thakur	OP 10:50 – 11:00	Improvement in Electro-strain behavior by La ³⁺ substitution in lead free Ba Zr _{0.05} Ti _{0.95} O ₃ Ceramics

	Dr. S.Gautam	OP 11:00 – 11:10	Electronic structure studies of Fe Doped ZnO
	Dr. S.K. Tripathi	OP 11:10 – 11:20	Swift heavy ion induced changes on a –GeSeAg Thin films
Tea:			11:20 – 11:30hrs
Session:4 Time: 11:30 – 13:30 Chairpersons:	Prof. S. Patnaik	IT 11:30 – 12:00	Multiferroicity in spin frustrated Bi ₂ Fe ₄ O ₉ and Ni ₃ V ₂ O ₈
	Dr. V. R. Reddy	IT 12:00 – 12:30	Study of weak ferromagnetism in multiferroic BiFeO ₃ with chemical substitution
	Dr. Ram Janay Choudhary	IT 12:30 – 13:00	Exploring room temperature ferromagnetism in pulsed laser deposited thin films of undoped and Fe doped MoO ₂ +d.
	Dr. S. Mollah	OP 13:00 – 13:10	Effect of SHI irradiation on multiferroic BiMn ₂ O ₅
	Dr. Abhinav Pratap Singh	OP 13:10 – 13:20	Synthesization and characterization of single phase Ni doped ZnO thin films using the technique of ion implantation and swift heavy ion irradiation
	Dushyant Tomer	OP 13:20 – 13:30	Magnetic thin films deposited by using Electrodeposition method
Lunch:			13:30 – 14:30hrs
Site Scene:			14:30 – 20:00
Dinner:			20:00 – 21:30hrs
		18 April 2009	
Session:5 Time: 9:00 – 11:00 Chairpersons:	Speaker	lecture	Title of the Talk
	Dr. P. Thakur	IT 9:00 – 9:30	X-ray absorption and magnetic circular dichroism study of the magnetic interaction in spinel Bi _x Co _{2-x} MnO ₄ thin films

	Prof. K. K. Raina	IT 9:30 – 10:00	Morphological Investigation and Supra-molecular behaviour in some novel functional materials for nanodevices
	Prof. P. K. Ahluwalia	IT 10:00 – 10:30	Different Topologies of Coupled Quantum Dots and Effect of Asymmetry on Transport
	Dr. B.N. Wani	OP 10:30 – 10:40	Effect of Mn substitution on Crystal Structure, Electrical conductivity and Thermal expansion of LaFeO ₃
	Mr. Nital R. Panchal	OP 10:40 – 10:50	Structural and thermal properties of Strontium hexaferrite particles prepared by different routes
	Ms. Alka Deshmukh	OP 10:50 – 11:00	Effect of Iron doping on the valence band, resistivity and magnetization of La _{0.7} Sr _{0.3} MnO ₃
Tea:			11:00 – 11:15hrs
Session:6 Time: 11:15 – 13:15	Dr. N. S. Negi	IT 11:15 – 11:45	Multifunctional properties of Fe substituted PbTiO ₃ and (Pb,Sr)TiO ₃ systems: bulk and thin films
Chairpersons:	Dr. S. Bandyopadhyay	OP 11:45 – 11:55	Synthesis and characterization of single phase Mn doped ZnO
	Dr. Sudhindra Rayaprol	OP 11:55-12:05	Dielectric Response of Manganocuprates, Ln ₃ Ba ₂ Mn ₂ Cu ₂ O ₁₂ (Ln= Eu, Gd)
	R. K. Moudgil	OP 12:05 – 12:15	Correlation Effects in Nano-Sized Coupled Electron-Hole Quantum Wires
Poster Session {PS – II, All even Poster Nos.}:		12:15 – 14:00hrs	Poster Size: 1× 1 meter
Lunch: 14:00-15:00hrs			
Valediction Function:			15:00 – 16:00

Key note Address (40min)

IT-Invited Talk (30min)

OP – Oral Presentation (10min)