

## **General Information**

All event venues are within IIT Roorkee Campus

### **Inaugural and Plenary Session**

O.P. Jain Auditorium  
Civil Engineering Department

### **Oral Presentation Venue**

Lecture Room 1 & 2  
Dept of Management Studies  
(Entrance next to Central Library)

### **Poster Session Venue**

Central Library Basement

### **Onsite Registration / Assistance Desk**

Dec 10, 2008, 2:00 PM onwards at Auditorium, Metallurgical and Materials Engineering

Dec 11, 2008, 8:00 to 10:00 AM at O.P. Jain Auditorium, Civil Engineering

### **Conference Banquet Venue**

Director's Lounge

### **Instruction for Oral Presentation**

1. Each Oral Presentation is limited to 15 min and Invited lecture to 25 min, inclusive of Q & A. Kindly allow 2-3 min for the Q & A. The Chairpersons will be strictly adhering to the program schedule.
2. Presentations should be done using Microsoft Powerpoint. A Laptop with LCD projector will be made available for all sessions. To minimize technical difficulties, we request all the presenters to save the presentation to a USB storage device or CD in a format that can be read by Powerpoint on a Windows 1997-2003 based PC.
3. Presenters should transfer their files on to the laptops as early as possible. Preferable times for presenters to load in their files are at the Registration desk on Dec 11 morning or during Tea and Lunch breaks. A Technical Team member will be available to assist the presenter.
4. The presenting authors are requested to submit a short CV for the session Chairs at the Registration desk. The standard form is available at the desk.

### **Instructions for Poster Presentation**

1. The space available for each poster is 4' × 4'.
2. Kindly collect your designated board number and necessary stationary from the Technical Team at the Registration Desk.
3. Use the Lunch break on Dec 11 to display your poster.
4. The presenter is requested to be available to explain the during the Poster session time slots.

## Technical Program Schedule

<b>Date</b>	<b>December 11, 2008 (Thursday)</b>
<b>Timing</b>	
0800-0930	REGISTRATION AND INAUGURAL TEA (CIVIL ENGG. AUDITORIUM)
0930-1030	<b>Inauguration</b>

<b>PLENARY SESSION</b>	<b>Plenary Lectures</b>			
	Chairperson: Dr. K. S. Rajam, NAL, Bangalore			
	Co Chairperson: Dr. Satya Prakash, MMED, IIT Roorkee			
<b>Timing</b>	<b>Paper #</b>	<b>Title</b>	<b>Author</b>	<b>Affiliation</b>
1030-1130	PL1	Advanced Continuous Nanofibers: An Emerging New Class of Nanomaterials for Devices and Products	Yuris Dzenis	University of Nebraska, USA
1130-1230	PL2	Hybrid organic-inorganic systems for (spin) electronics	Wilfred G. van der Wiel	University of Twente, The Netherlands

1245-1400	<b>Lunch</b>
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<b>SESSION 1A</b>	Session Theme: Zinc Oxide I			
	Chairperson: Dr. Richard Penelle, University of Paris-sud, France			
	Co Chairperson: Dr. P.S.Mishra, MMED, IIT Roorkee			
<b>Timings</b>	<b>Paper #</b>	<b>Title</b>	<b>Authors</b>	<b>Affiliation</b>
1400-1430	IL1	Activities on 'Nano Scale Architecture' at NAL – A broad brush picture	<b>K S Rajam</b>	National Aerospace Laboratories, Bangalore
1430-1445	OP1A1	Static dielectric constant of nanocrystalline Cu doped ZnO	<b>C. K. Ghosh, K. Chattopadhyay</b>	Department of Physics, Jadavpur University
1445-1500	OP1A2	Synthesis and characterisation of urea doped p-type ZnO thin film grown by pulsed laser deposition	<b>S. Majumdar, P. Banajree</b>	IIT Kharagpur.
1500-1515	OP1A3	Growth of Zinc Oxide Nano-particles by the reaction of Zinc with Ethanol	<b>M. A. Shah, R. Ambardar and Y. Mehta</b>	NIT Sirinagar
1515-1530	OP1A4	Co-Doped ZnO Nanoparticles: Synthesis, Structural and Magnetic Properties	N. Rajeswari Yogamalar, C. Esther Elizabeth, R. Srinivasan, <b>A. Chandra Bose</b>	NIT Tiruchirappalli
1530-1545	OP1A5	Growth and Studies of S <sup>2-</sup> Doped ZnO Nanorods by Solution Growth Technique	<b>M. K. Patra</b> , A. Padhye, M. Manoth, G. S. Gowd, V.K. Singh, S. R. Vadera, N. Kumar	Defence Laboratory, Jodhpur
1545-1600	OP1A6	Electrical properties of Pulsed Laser Deposited ZnO thin films	<b>S. Chattopadhyay</b> and T. K. Nath	IIT Kharagpur

<b>SESSION 1B</b>	Session Theme: Biomaterials I			
	Chairperson: Dr. Lalit Mohan Bhardwaj, CSIO			
	Co Chairperson: Dr. Shailly Tomal, Biotech, IIT Roorkee			
<b>Timings</b>	<b>Paper #</b>	<b>Title</b>	<b>Authors</b>	<b>Affiliation</b>
1400-1430	IL2	Processing, in vitro and in vivo properties of HAP containing bioceramic composites	<b>Bikramjit Basu</b>	IIT Kanpur, India
1430-1445	OP1B1	Generation of DNA aptamers for Pathogen biosensing and Mitigation	<b>Tarun K Sharma</b> , Manish Rana and Naveen K Navani	IIT Roorkee, India
1445-1500	OP1B2	Human fat with adipose tissues as biosensor in obesity control	<b>K.S. Aithal</b> , P. Kumar, K. Nalini, S.R.Girish, M.Thukaram	Manipal Institute of Technology, Manipal
1500-1515	OP1B3	Chemical and Structural Characterization of Nanostructured Carbon Based Ayurvedic Drug – Hiraka Bhasma	<b>ShivRaj Takale</b> , R. W. Jawale, V. V. Dhapte, R. G. Sarawadakar, B. A. Kulkarni and S. S. Kadam	Bharati Vidyapeeth University, Pune
1515-1530	OP1B4	Nanoparticles aggravate CNS injuries induced Cognitive deficits, Blood-brain barrier disruption, Edema formation and Brain pathology	<b>Hari Shanker Sharma</b> and Aruna Sharma	Uppsala University, Sweden
1530-1545	OP1B5	Nanoscaffold based cultivation of rat embryonic liver stem cells and its characterization for bioartificial liver supports.	<b>Shibashish Giri</b> , Sanja Pavlica, Mario Keller, Augustinus Bader	University of Leipzig, Germany

1600-1630	<b>TEA BREAK &amp; POSTER SESSION (CENTRAL LIBRARY BASEMENT)</b>
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<b>SESSION 2A</b>	Session Theme: Magnetic and Optical properties I			
	Chairperson: Dr. K. M. Knowles, University of Cambridge, UK			
	Co Chairperson: Dr. Aalok Mishra, Department of Physics, IIT Roorkee			
Timings	Paper #	Title	Authors	
1630-1700	IL3	Magneto resistive studies in metallic-nano polymeric and metallic-nano oxide interfaces employing Pulsed Electron Deposition	<b>S. Sundar Manoharan</b>	IIT Kanpur
1700-1715	OP2A1	Raman Studies in Potassium Nitrate: Polyvinylidene Fluoride Composite Films	<b>Neeraj Kumar</b> and R. Nath	Department of Physics, Amity University Rajasthan, Jaipur
1715-1730	OP2A2	Structural and Photoluminescence Property of Nanoporous Anodic Aluminium Oxide Membranes Fabricated in Sulphuric Acid Electrolyte	<b>G.G. Khan</b> , J. Sarkar, A. Basumallick and N.R. Bandyopadhyay	Bengal Engineering and Science University, West Bengal
1730-1745	OP2A3	Optical Studies of Cerium based Protonic conductors in the Nano form	<b>C.R. Indulal</b> , S.Manoj, G. Sajeev Kumar, A.V.Vaidyan & R. Raveendran	Kerala University, Kollam
1745-1800	OP2A4	Ceria doped Yttria Nanoparticles for Phosphor Applications	R. Srinivasan, N. Rajeswari Yogamalar, and <b>A. Chandra Bose</b>	National Institute of Technology Tiruchirappalli
1800-1815	OP2A5	Protonic Conductivity and Dielectric properties of nanocrystalline zirconium(IV)tungstate	S.Manoj, <b>C.R.Indulal</b> , A.V.Vaidyan and B.Beena	Kerala University, Kollam
1815-1830	OP2A6	Preparation and Characterization of Biodegradable and Compatible Ethylene vinyl acetate/Thermoplastic starch blend nanocomposites	<b>Vivek Patel</b>	Allele Life Sciences Pvt Ltd, Noida

<b>SESSION 2B</b>	Session Theme: Biomaterials II			
	Chairperson: Dr. Bikramjeet Basu, IIT Kanpur			
	Co Chairperson: Dr. Pravindra Kumar, Biotech. IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
1630-1700	IL4	Biomolecular Hybrid Devices	<b>Lalit M Bharadwaj</b>	CSIO, Chandigarh
1700-1715	OP2B1	Nano-biopolymers and their composites using lignocelluloses derived from rice straw: Processing and Applications	<b>A.S.K. Sinha</b> , M. Singh and S.P.Singh	SLIET, Longowal, Sangrur, Punjab
1715-1730	OP2B2	Nanotechnology used in the Developing World and Toxicological and biological effects of nanomaterials	<b>Arun Kumar Shukla</b> and Lakshmi Narayan Garg	Madhav institute of technology and science, Gwalior (MP)
1730-1745	OP2B3	Preparation and Characterization of Organoclay Reinforced Poly(lactic Acid) Biocomposite Films	Kunal Das, <b>Dipa Ray</b> , N. R. Bandyopadhyay, Suparna Sengupta, S. P. Sengupta, Amar K. Mohanty, Manjusri Misra	University of Calcutta, Kolkata
1745-1800	OP2B4	Biological synthesis of Ag Nanoparticles through the invitro cultures of Brassica juncea C. Zern	<b>Vedpriya Arya</b> and G. S. Shekhawat	Banasthali University, Rajasthan
1800-1815	OP2B5	Nanocalorimetric Study of Myosin Catalyzed ATP Hydrolysis by Isothermal Titration Calorimetry	Deepak Kukkar, Harsimran Kaur, Suresh Kumar, Inderpreet Kaur, <b>Lalit M Bharadwaj</b>	CSIO, Chandigarh
1815-1830	OP2B6	Medical, Magnetic and Molecular Utility of Iron (Fe) Nanoparticles	<b>R. B. Choudhary</b> , A. Kumar, M. K. Sharma, M. Kamboj, D. S. Tyagi	Center for Advanced Technology (CAT), Haryana
1830-2000	<b>POSTER SESSION (CENTRAL LIBRARY BASEMENT)</b>			
2000-2130	<b>Banquet (Director's Lounge)</b>			

<b>Date</b>	<b>December 12, 2008 (Friday)</b>
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0800-0900	<b>Breakfast</b>
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<b>SESSION 3A</b>	Session Theme: Intermetallics			
	Chairperson: Dr. H. S. Virk, Jalandhar			
	Co Chairperson: Dr. Ramesh Chandra, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
0900-0915	IL5	Van der Waals dispersion forces at interfaces between anisotropic dielectric materials	<b>K.M. Knowles</b>	University of Cambridge, UK
0915-0930	OP3A1	Formation of Nanointermetallic Compounds and their Stability during Mechanical Alloying of Ti-48Al-12Nb-1Cr System	S. Kumaran and <b>T. Srinivasa Rao</b>	NIT Tiruchirappalli
0930-0945	OP3A2	Study on generation of fine grained Titanium Aluminide through ball milling of Ti, Al and Ni-P coated graphite powder mixture	<b>R. K. Gupta</b> , Vijaya Agarwala, Sunayan Thakur, R. C. Agarwala, Bhanu Pant	ISRO, Trivandrum
0945-1000	OP3A3	Corrosion Behaviour of Amorphous and Nanocrystalline Ti <sub>60</sub> Ni <sub>40</sub> in Aqueous HNO <sub>3</sub> Solution	<b>Shubhra Mathur</b> , Rishi Vyas, S. N. Dolia, K. Sachdev and S. K. Sharma	Malaviya National Institute of Technology, Jaipur
1000-1015	OP3A4	Ni-P and Ni-P-PTFE Nanocomposite Coating on Mild Steel for Corrosion and Wear Resistance	Ankita, <b>A. K. Singh</b> , R. C. Agarwal and V. Agarwal	IIT Roorkee

<b>SESSION 3B</b>	Session Theme: Carbon I			
	Chairperson: D. Srivastava, BARC			
	Co Chairperson: Dr. R. Jayaganthan, MMED, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
0900-0930	IL6	Development of Nanomaterials for Indian Space Programmes	<b>S. C. Sharma</b>	VSSC, Trivandrum
0930-0945	OP3B1	Formation of conducting carbon nanowires by ion irradiation: electrical and field emission properties	<b>Amit Kumar</b> , Julien Pernot, D. K. Avasthi, J. C. Pivin	Neel Institute, CNRS-UJF, Grenoble, France
0945-1000	OP3B2	Morphological and Dielectric behavior of Carbon Nanotube-ferroelectric liquid crystal composite	<b>Deepika Sharma</b> , Sachin Tyagi, Dr.K.K.Raina	Thapar University, Patiala, Punjab
1000-1015	OP3B3	Fullerenes Incorporation in Graphite and Its Influence on Friction and Wear Properties	<b>J.N. Srivastava</b> , K.K. Awasthi, Bal Krishna and KUB Rao	DMSRDE, Kanpur
1015-1030	OP3B4	Synthesis of Carbon Nanotubes by Microwave CCVD and its Characterization	<b>Jitendra Yadav</b> , Dhiraj Dutta, T. C. Shami and K.U. Bhasker Rao	DMSRDE, Kanpur

1030-1100	<b>TEA BREAK &amp; POSTER SESSION (CENTRAL LIBRARY BASEMENT)</b>
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<b>SESSION 4A</b>	Session Theme: Bulk nano, amorphous, FEM			
	Chairperson: Dr. T. Srinivasa Rao, NIT-Tiruchy			
	Co Chairperson: Dr. G. D. Varma, Physics, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
1100-1130	IL7	Nanocrystalline Micro-truss Materials	<b>G.D. Hibbard</b>	University of Toronto, Canada
1130-1145	OP4A1	Rapidly solidified amorphous / nano-structured soft magnetic materials	<b>D. Akhtar</b> , B.Majumdar and D.Arvintha Babu	DRDO, Hyderabad
1145-1200	OP4A2	Positron Annihilation Spectroscopy of Nanocrystallized Iron Based Metallic Glass	P. Srivastava, <b>D. Srivastava</b> , G. K. Dey, K. Sudersan, K. G. Suresh, B. Majumdar and P. K. Pujari	BARC, Trombay
1200-1215	OP4A3	Equal channel angular pressing of Al alloy AA2219	<b>V. Anil Kumar</b> , M. K. Karthikeyan, R. K. Gupta, P. Ramkumar, P. P. Sinha	ISRO, Trivandrum
1215-1230	OP4A4	Determination of Image Forces in Nanocrystals using Finite Element Method	Prasenjit Khanikar, Manohar Oraon, <b>Anandh Subramaniam</b>	IIT Kanpur
1230-1245	OP4A5	Nanocrystallization of Cobalt Based Metallic Glass	P. Srivastava, <b>D. Srivastava</b> , G. K. Dey, K. Sudersan, K. G. Suresh, B. Majumdar and P. K. Pujari	BARC, Trombay
1245-1300	OP4A6	A Combined effect of annealing and ageing treatment on Ultrafine grained Nanocrystalline Al 6061 and Al 6063 alloys	<b>Sushanta Kumar Panigrahi</b> , P. Nageswara Rao and R. Jayaganthan	IIT Roorkee

<b>SESSION 4B</b>	Session Theme: Nano Devices			
	Chairperson: Dr. Ghim wei Ho, NUS, Singapore			
	Co Chairperson: Dr. N. P. Pathak, E&C, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
1100-1130	IL8	Nano-crystalline photovoltaic solar cells based on organic materials	<b>G.D.Sharma</b>	JNV University, Jodhpur
1130-1145	OP4B1	Dynamic approach to handle leakage mechanisms in nano scale cmos devices	<b>V. Praveen Kumar</b> , V. Surya Naik, V. Veeresh, Rajeevan Chandel	National Institute of Technology, Hamirpur
1145-1200	OP4B2	Biomolecules Toward Ultimate computing	Retna Sen and <b>V Komati</b>	Institute of Management & Technology, Faridabad
1200-1215	OP4B3	Enhanced Gas Sensing Mechanism in ZnO Nanowire based Smart Sensor	<b>A. B. Maity</b> , A. Dev, S. Kar and S. Chaudhuri	Haldia Institute of Technology, Kolkata
1215-1230	OP4B4	Comparison of I-V Characteristics for different metal contacts for RASC MOSFET	<b>S.Khanna</b> , A.Noor, S. Neeleshwar	School of Electronics, CDAC-Noida
1230-1245	OP4B5	Organic Light Emitting Diode: Catalyzing Advances in Solid State Lightning	<b>Digvijay Singh</b> , Mandeep Singh, Kshama Pandey, Ramesh Arya	Department of Electronics & Communication Engineering, AIET, Alwar
1300-1430	<b>Lunch Break</b>			

<b>SESSION 5A</b>	Session Theme: Zinc oxide II			
	Chairperson: Dr. Aravind Bharati, DRDO HQ			
	Co Chairperson: Dr. Devendra Singh, MMED, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
1430-1500	IL9	Aqueous synthesis towards vertically-aligned and selective pattern of ZnO nanostructures arrays	<b>Ghim Wei Ho</b>	NUS, Singapore
1500-1515	OP5A1	Effect of deposition temperature and post-annealing on structural and optical properties of pulsed laser deposited Zn <sub>x</sub> Mg <sub>1-x</sub> O thin films	<b>Gaurav Shukla</b> , Alikha Khare	IIT Guwahati
1515-1530	OP5A2	Synthesis and characterization of transparent conducting ZnO:Al thin films by chemical spray pyrolysis	<b>C. M. Mahajan</b> , A. G. Godbole, S. P. Gumfekar, S.H. Sonawane, M. G. Takwale	Vishwakarma Institute of Technology, Pune
1530-1545	OP5A3	Enhanced photoelectrochemical activity of 120 MeV Ag <sup>9+</sup> irradiated nanostructured thin films of ZnO for solar-hydrogen generation via splitting of water	<b>Rohit Shrivastav</b> , Monika Gupta, Jaya Shrivastav, Vidhika Sharma, Anjana Solanki, A.P. Singh, V.R. Satsangi, S.Dass	Dayalbagh Educational Institute, Agra
1545-1600	OP5A4	Synthesis of hydroxyapatite nano materials and its characterization	<b>M.Rajkumar</b> , N.Meenakshisundram and V.Rajendran	K.S.Rangasamy College of Technology, Tiruchengode

<b>SESSION 5B</b>	Session Theme: Spinel and noble metals			
	Chairperson: Dr. S.C. Sharma, VSSC			
	Co Chairperson: Dr. Vivek Pancholi, MMED, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
1430-1500	IL10	Development of Nanomaterials from natural resources for various industrial applications	<b>V. Rajendran</b>	K.S.Rangasamy College of Technology, Tamil Nadu
1500-1515	OP5B1	Study of xZnFe <sub>2</sub> O <sub>4</sub> -(1-x)BiFeO <sub>3</sub> Multiferroic nanocomposite	<b>P. Uniyal</b> and K. L. Yadav	Department of Physics, IIT Roorkee
1515-1530	OP5B2	Synthesis and characterization of LiMn <sub>2</sub> O <sub>4</sub> nanoparticles using citric acid as chelating agent	<b>Gurpreet Singh</b> , Amrishi Panwar, Anjan Sil and Sudipto Ghosh	IIT Roorkee
1530-1545	OP5B3	Preparation and characterization of Li [Mn <sub>2-x</sub> Fe <sub>x</sub> ]O <sub>4</sub> (x=0.0-0.6) spinel nanoparticles as cathode materials for Lithium ion battery	<b>Priti Singh</b> , Anjan Sil, Mala Nath, S. Ray	IIT Roorkee
1545-1600	OP5B4	Synthesis and Characterization of Monometallic Gold and Silver Colloidal Nanoparticles	B. Gajalakshmi, K. Chandran, <b>Vaidehi Ganesan</b> , V. Ganesan and P.K. Nair	IGCAR Kalpakkam
1600-1630	<b>TEA BREAK &amp; POSTER SESSION (CENTRAL LIBRARY BASEMENT)</b>			

<b>SESSION 6A</b>	Session Theme: Quantum Dots, Carbon, Shape memory			
	Chairperson: Dr. D. Akthar, DMRL, Hyderabad			
	Co Chairperson: Dr. P. Jeevanandam, Chemistry, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
1630-1700	IL11	Research in nanoparticles in Chemistry Group, Bhabha Atomic Research Centre, Mumbai, India	<b>Tulsi Mukherjee</b>	BARC, Trombay
1700-1715	OP6A1	Patterned Silicon Wafer for Selective $\beta$ -SiC Nanowire Growth	<b>S. K. Panda</b> and C. Jacob	IIT Kharagpur
1715-1730	OP6A2	Effect of Temperature and Solvent on the Synthesis of Cadmium Selenide Quantum Dots Derived from Cyclohexeno -1,2,3-selenadiazole	<b>R. K. Beri</b> and P. K. Khanna	Nanoscience Laboratory, Centre for Materials for Electronics Technology, Pune
1730-1745	OP6A3	Synthesis and Comparative Study of CdS Quantum Dots using Colloidal Synthesis Technique at low temperature	<b>Lubna Hashmi</b> , M.S.Qureshi, R.N.Dubey, M.M.Malik, Ishrat Alim, A.H.Siddiqui	Maulana Azad National Institute of Technology, Bhopal
1745-1800	OP6A4	Morphological and mechanical characterization of PMMA - TiO <sub>2</sub> nanocomposites	<b>Niranjan Patra</b> , Alberto Barone, Marco Salerno, Gianvito Caputo, Davide Cozzoli, Athanassia Athanassiou	University of Genova, Italy
1800-1815	OP6A5	Effect of multiwall carbon nanotube doping on the morphological, electro-optic and dielectric modes of ferroelectric liquid crystal mixture	<b>P. Malik</b> and K.K. Raina	Dr. B. R. Ambedkar National Institute of Technology Jalandhar
1815-1830	OP6A6	Improvement of Recoverable Strain of Ni-Ti Shape Memory Alloy by Microstructural Refinement	<b>A.Sinha</b> , S.Datta and P.P.Chattopadhyay	Bengal Engineering and Science University, Shibpur, Howrah

<b>SESSION 6B</b>	Session Theme: SPD : synthesis and characterization			
	Chairperson: Dr. Neema Jain, SSPL			
	Co Chairperson: Dr. R.K. Dutta, Chemistry IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
1630-1700	IL12	Texture and microstructure formation and evolution in ultrafine grain materials obtained by severe plastic deformation	<b>Richard Penelle</b>	Univ. Paris-Sud, Orsay, France
1700-1715	OP6B1	Study of structural and chemical environments of nanocrystalline silicon deposited by hot wire chemical vapor deposition	<b>Bibhu P. Swain</b> , Bhabani S. Swain, Nong M. Hwang	Seoul National University, Korea
1715-1730	OP6B2	Synthesis and Nondestructive Characterization of Cr <sub>2</sub> O <sub>3</sub> Nanoparticles-PVA Suspensions	<b>D.K.Singh</b> and R.R. Yadav	Allahabad University, Allahabad
1730-1745	OP6B3	Synthesis and characterization of Lead Telluride nanocrystals	<b>Biplab Paul</b> and P. Banerji	IIT-Kharagpur
1745-1800	OP6B4	Heavy Ion Tracks Route to Nanotechnology	<b>H. S. Virk</b>	DAV Institute of Engineering and Technology, Jalandhar
1800-1815	OP6B5	Fabrication & Characterization of Nanocrystalline iron-nickel alloy by Electrochemical Deposition	<b>A. Sanaty zadeh</b> , A. Saidi, and K. Raeissi	Isfahan University of Technology, Isfahan, Iran
1815-1830	OP6B6	Effect of residual stress on n doped nano-crystalline silicon (nc-Si) deposited by HWCVD films	<b>Bibhu P. Swain</b> , Bhabani S. Swain, Nong M. Hwang	Seoul National University, Korea

1830-1900	<b>TEA BREAK &amp; POSTER SESSION (CENTRAL LIBRARY BASEMENT)</b>			
1900-2000	<b>Cultural Program</b>			
2000-2130	<b>Dinner</b>			

<b>Date</b>	<b>December 13, 2008 (Saturday)</b>
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0800-0900	<b>Breakfast</b>
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<b>SESSION 7A</b>	Session Theme: Magnetic and Optical properties II			
	Chairperson: Dr. T Sami, DMSRD, Kanpur			
	Co Chairperson: Dr. Ravi Kumar, MIED, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
0900-0930	IL13	Photovoltaics using nano-engineered CNT 'inorganics-in-organic' composites	<b>S.R.P. Silva</b>	University of Surry, UK
0930-0945	OP7A1	Structural and Magnetic Properties of Zinc substituted Strontium Hexaferrite Nano particles prepared by a co-precipitation technique	<b>Nital R. Panchal</b> and R. B. Jotania	Gujarat University
0945-1000	OP7A2	A Comparative Study on the Morphology and Magnetic Properties of Barium and Strontium Hexaferrite Nano particles Synthesized by Co-Precipitation Method	<b>Sachin Tyagi</b> , R.C. Agarwala, and Vijaya Agarwala	IIT Roorkee
1000-1015	OP7A3	Effect of strontium hexaferrite nanoparticles in the heat transfer phenomenon and pressure drop in microchannels	<b>Anuj Bhansali</b> , R. Kumar, Sachin Tyagi and V. Agarwala	IIT Roorkee
1015-1030	OP7A4	Effect of Grain size on dielectric and ferroelectric properties of double doped PZT (65/35)	<b>Md Ahamad Mohiddon</b> and K.L. Yadav	IIT Roorkee

<b>SESSION 7B</b>	Session Theme: Composites and synthesis			
	Chairperson: Dr. S.R.P. Silva, Univ. of Surry, U.K			
	Co Chairperson: Dr. Anjan Sil, MMED, IITR			
Timings	Paper #	Title	Authors	Affiliation
0900-0930	IL14	Developments in Processing and Properties of Ultrafine Grained and Nanostructured Metal Matrix Composites for Engineering Applications	<b>B.C. Pai</b>	IIT Madras
0930-0945	OP7B1	Superparamagnetic behaviour of Nickel ferrite nanoparticles	<b>S. Annapoorni</b> , Rakesh Malik, Subbhalakshmi Lamba	Department of Physics and Astrophysics, University of Delhi
0945-1000	OP7B2	Synthesis, Microstructural and Magnetic properties of BaMg <sub>2</sub> Fe <sub>10</sub> O <sub>19</sub> hexaferrite Nanoparticles prepared by a sol-gel route	<b>C.C. Chauhan</b> and R.B. Jotania	Gujarat University
1000-1015	OP7B3	Synthesis of 1-D Nanostructures of ZnFe <sub>2</sub> O <sub>4</sub> and ZnO by a Low Cost Self-Catalyzed VLS Method	<b>Nitin Tyagi</b> , Ashutosh Kumar, Sumedh Chaudhry, S.Ray and G.D. Varma	IIT Roorkee
1015-1030	OP7B4	Controlled Synthesis of ZnO Nanoflower and Nanorods by Sonochemical Method	<b>Prashant Kumar Singh</b> , Ankit Mittal and Dr. Vijaya Agarwala	IIT Roorkee

1030-1100	<b>TEA BREAK</b>
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<b>SESSION 8A</b>	Session Theme: Carbon II			
	Chairperson: Dr. Vaidehi Ganesan, IGCAR			
	Co Chairperson: Dr. D. Kaur, Physics, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
1100-1130	IL15	Invited Lecture	<b>K. B. S. Rao</b>	IGCAR
1130-1145	OP8A1	Water soluble carbon nanotube from waste material the next industrial revolution	<b>Ajay Singh</b> , S. Sarkar, S. B. S Mishra	National Institute of Technology
1145-1200	OP8A2	A comparative study of the synthesis of carbon nanotubes using Ni and Fe as catalyst	<b>J. Sengupta</b> , S. K. Panda and C. Jacob	IIT Kharagpur
1200-1215	OP8A3	Simulation and Analysis of Electrical Conductance of Single Wall Carbon Nanotubes	<b>Neeraj Jain</b> , Harsh, R K Sinha	DRDO, Delhi
1215-1230	OP8A4	Carbon Nanotube Spun Thread as Piezoresistive Sensor Element for Structural Neural Network System	<b>Nilanjan Mallik</b> , Mark J. Schulz, Vesselin N. Shanov, Douglas Hurd, Chaminda Jayasinghe, Pravahan Shalunke	University of Cincinnati, Cincinnati, Ohio, USA

<b>SESSION 8B</b>	Session Theme: Synthesis and magnetic properties			
	Chairperson: Dr. B.C. Pai, NIIST, Thiruvananthapuram			
	Co Chairperson: Dr. Justin Thomas, Chemistry, IIT Roorkee			
Timings	Paper #	Title	Authors	Affiliation
1100-1130	IL14			
1130-1145	OP8B1	Development and Microwave Absorption Properties of Electroless Ni-P/NRAM Nanocomposite Powders	<b>Rahul Sharma</b> , R.C. Agarwala, and Vijaya Agarwala	MMED IIT Roorkee
1145-1200	OP8B2	Laser Deposition of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ thin films for multiferroic memory devices	<b>Sarmistha Maity</b> , A. Dhar, S. K. Ray, D. Bhattacharya	IIT Kharagpur
1200-1215	OP8B3	Synthesis of Iron Oxide Nanoparticles by a Thermal Decomposition Approach	<b>P. Jeevanandam</b>	IIT Roorkee
1215-1230	OP8B4	Nano dimension effect on magnetic and electrical properties of $\text{Pr}_{0.8}\text{Sr}_{0.2}\text{MnO}_3$ ferromagnetic insulating manganite	<b>S. Mondal</b> , A. Taraphder, T. K. Nath	IIT Kharagpur
1230-1245	OP8B5	Synthesis of lithium doped carbon nanotubes and their structural and electrochemical characteristics	<b>Kuldeep Rana</b> , Anjan Sil, S. Ray	IIT Roorkee
1230-1330	<b>Valedictory Function</b>			
1330-1430	<b>Lunch Break</b>			
1500	<b>Tour Program (Haridwar/Rishikesh/Mussorie)</b>			