

ORAL PRESENTATIONS SCHEDULE

Parallel Session 1

Chair Person: Prof. A. Rubio

Date: 03.01.2008

Time: 11.30 - 12.45 hrs

Venue: Main Hall, PEC Auditorium

Session No.	Paper No.	Author with Address	Paper Title
1.1	O01	Biswajit Ray and Santanu Mahapatra, Nano Scale Device Research Lab , Indian Institute of Science, Bangalore-5600012, India.	Analytical Potential Model for Omega Gate Cylindrical Silicon Nanowire Transistor
1.1	O02	T. K. Maiti, A. K. Singh and C. K. Maiti Electronics and ECE Department, IIT Kharagpur, Kharagpur-721302, India.	Ge Out-Diffusion: Performance Booster?
1.1	O03	Rahul Karma¹, S.S. Rathod² and D.R. Mehta¹ ¹ Veer mata Jijabai Technological Institute, Matunga, Mumbai-19, India. ² Sardar Patel Institute of Technology, Andheri (West), Mumbai-58, India.	SOI CMOS Techniques Suitable for Low Voltage SRAM Cell
1.1	O04	D. Mitra and C. K. Maiti Department of Electronics and ECE, IIT Kharagpur, Kharagpur – 721302, India.	Performance Comparison of Nanoscale Strained-Silicon FinFETs for Low Stand-by Power Applications
1.1	O05	Nisha Doshi, Laxman Pai, Rajesh Bhole, Kiran Purabia and S. S. Rathod Sardar Patel Institute of Technology, Andheri (West), Mumbai-58.	Design of Digital and Analog Circuits using SOI Technology for Nano Scaled Devices

ORAL PRESENTATIONS SCHEDULE

Parallel Session 1

Chair Person: Dr. Irene D'Amico

Date: 03.01.2008

Time: 11.30 - 12.45 hrs

Venue: Multipurpose Hall, PEC Auditorium

Session No.	Paper No.	Author with Address	Paper Title
1.2	O06	Laxman Ramchandani, Syed M Rehman and Cyril Prasanna Raj .P VLSI System Design Centre, M.S Ramaiah School of Advanced Studies, New BEL Road, Gnanagangothri Campus, Bangalore – 560054, India.	Systolic Array Based Matrix Multipliers for MIMO OFDM
1.2	O07	G. Yugandhar, T. K. Maiti and C.K.Maiti Department of Electronics and ECE, IIT Kharagpur, Kharagpur – 721302, India.	Vertical MOSFETs: Single Gate Vs. Double Gate
1.2	O08	Venkatachalam Jayalakshmi, Ramaswamy Murugan and Balan Palanivel Department of Physics, Pondicherry Engineering College, Puducherry – 605 014, India.	Electronic Structure of $CuMX_2$ (M= Ga, In; X= S, Se, Te) Under Pressure
1.2	O09	N. Kalra¹, M. Rovere², S. Bianco³, M. Giorcelli³, S. Musso³ and A. Tagliaferro^{2,3} ¹ Ceramic Engineering Dept. IT-BHU Varanasi, India. ² CESMO – Politecnico Torino – Torino – Italy. ³ Dip. Fisica – Politecnico Torino – Torino – Italy.	Analysis of X Ray Diffraction Signal of Carbon Nanostructures
1.2	O10	A.Banerjee and A.Dhar Department of Electronics & ECE, Indian Institute of Kharagpur, Kharagpur-721302, India.	Strain Engineering in MOSFETs: Dawn of a New Era

ORAL PRESENTATIONS SCHEDULE

Parallel Session 1

Chair Person: Dr.

Date: 03.01.2008

Time: 11.30 – 12.45 hrs

Venue: Seminar Hall, PEC Auditorium

Session No.	Paper No.	Author with Address	Paper Title
1.3	O11	Swati Shandilya, K.Sreenivas and Vinay Gupta Department of Physics and Astrophysics, University of Delhi, Delhi-110007, India.	Growth and Characterization of C-axis Oriented LiNbO ₃ Thin Film Deposited by RF Sputtering
1.3	O12	M. Arif Department of Electronics & Communication Engineering, National Institute of Technology, Kurukshetra-136119, Haryana, India.	Methodology for Achieving Supersaturation in Nanotechnology
1.3	O13	S. Majumdar¹, S. Bhunia² and P. Banerji¹ ¹ Materials Science Centre, Indian Institute of Technology, Kharagpur-721302, India. ² Surface Physics Division, Saha Institute of Nuclear Physics, 1/AF Saltlake, Sector – I, Kolkata-700064, India.	MOCVD Growth of Highly Aligned Nanorods
1.3	O14	Shivani Agarwal, K. Sreenivas and Vinay Gupta Department of Physics and Astrophysics, University of Delhi, Delhi-110007, India.	Structural and Dielectric Properties of Pulse Laser Deposited BaTiO ₃ -CoFe ₂ O ₄ Multiferroic Composite Thin Film
1.3	O15	S. Jasuja, T. K. Maiti and C. K. Maiti Department of Electronics and ECE, IIT Kharagpur, Kharagpur – 721302, India.	High-Density Non-Volatile SOHOS Memory with Al ₂ O ₃ as Blocking Oxides

ORAL PRESENTATIONS SCHEDULE

Parallel Session 1

Chair Person: Ms. Guixiang Qian

Date: 03.01.2008

Time: 11.30 - 12.45 hrs

Venue: ECE Seminar Hall

Session No.	Paper No.	Author with Address	Paper Title
1.4	O16	Harish Kumar¹, M. Muthukannu¹, R. Kannan¹, and R. Rajathy² ¹ Department of Physics, Pondicherry Engineering College, Puducherry, INDIA – 605 014. ² Department of EEE, Pondicherry Engineering College, Puducherry, INDIA – 605 014.	A Differential Evolution based Optimization Algorithm for Potential Energy Minimization
1.4	O17	M. Sethu and R. Jeyanthi Dept. of Mechatronics Engineering, Kongu Engg. College, Perundurai-638052, India.	Application of MEMS in Optobionics Retinal Implant
1.4	O18	A.Anitha Gnanapushpam and C.Thangam ECE Dept., Infant Jesus College Of Engg., Keelavallanadu, Tuticorin Dt, TamilNadu.	Construction of Nano Electronic Devices using DNA
1.4	O19	M.S. Anbarasi, G. Dhanupriya, N. Lakshmi Prabha and Padmavathy Peddibhotla Dept. of Information Tech., Pondicherry Engineering College, Puducherry-605014, India.	Medical Information Storage and Processing
1.4	O20	Abishek.J and Savvithri.S Sri Krishna College of Engineering, Coimbatore, Tamil Nadu-641018, India.	Application of Nanotechnology in Air Purification

ORAL PRESENTATIONS SCHEDULE

Parallel Session 2

Chair Person: Dr. Nitin Afzulpurkar

Date: 03.01.2008

Time: 13.45 - 14.45 hrs

Venue: Main Hall, PEC Auditorium

Session No.	Paper No.	Author with Address	Paper Title
2.1	O21	G. Ranganayakulu and C. K. Maiti Department of Electronics and ECE, IIT Kharagpur, Kharagpur – 721302, India.	Performance Enhancement by Process- Induced Stress in CMOS Technologies
2.1	O22	C. Mahata¹, M. K. Bera², P. K. Bose³ and C. K. Maiti¹ ¹ Dept. of Electronics and ECE, Indian Institute of Technology, Kharagpur, India. ² Dept. of Electronic Engineering, City University of Hong Kong, Kowloon, Hong Kong. ³ Mechanical Engineering Department, Jadavpur University, Jadavpur, Kolkata, India.	Effects of Post- Metallization Annealing on TiO ₂ Films on Germanium
2.1	O23	Tanvi Joshi, Aakanksha Pal and S. S. Rathod Sardar Patel Institute of Technology, Andheri(West), Mumbai-58, India.	A Technique to Reduce Power Consumption in Various Logic Circuits
2.1	O24	Pradeesh Madhavan, K.K. Mahapatra and Sudeendrakumar .K. Department of Electronics and Communication Engineering, National Institute of Technology Rourkela, PIN-769008.	Pipelined Architecture for Radix 2 ² Algorithm

ORAL PRESENTATIONS SCHEDULE

Parallel Session 2

Chair Person: Dr. Purushothaman

Date: 03.01.2008

Time: 13.45 - 14.45 hrs

Venue: Multipurpose Hall, PEC Auditorium

Session No.	Paper No.	Author with Address	Paper Title
2.2	O25	<i>Anbarasi.M.S¹ and K.M.Mehata²</i> ¹ Department of Information and Communication, College of Engineering, Anna University, Chennai-600025, India. ² Department of Computer Science and Engineering, College of Engineering, Anna University, Chennai-600025, India.	Nano-housing and Visual Representation
2.2	O26	<i>S. Sankar¹ and S. Ramareddy²</i> ¹ Dept. of EEE, Sathyabama University, Chennai, Tamil Nadu, India ² Dept. of EEE, Jerusalem college of Engg, Chennai, Tamil Nadu, India.	Simulation of IPFC Performance Based on Open and Closed Loop Systems
2.2	O27	<i>D.Peroumal and N.Balasubramaniam</i> Dept of Mechanical Engineering, Pondicherry Engineering College, Puducherry, India.	The Finite Element Analysis Investigation on Mechanical Properties of Single Walled Carbon Nanotubes
2.2	O28	<i>D.Vanidha and R.Kannan</i> Department of Physics, Pondicherry Engineering College, Puducherry - 605 014, India.	CMR Properties of Sol-Gel Derived Nano-Phasic Ba _{1-x} Sb _x MnO ₃

ORAL PRESENTATIONS SCHEDULE

Parallel Session 2

Chair Person: Dr. C.L. Indira

Date: 03.01.2008

Time: 13.45 - 14.45 hrs

Venue: Seminar Hall, PEC Auditorium

Session No.	Paper No.	Author with Address	Paper Title
2.3	O29	Jijiang Fu¹, Kaifu Huo^{1,2}, Xuming Zhang¹, Guixiang Qian², Biao Gao¹, and Paul K Chu² ¹ Hubei Province Key Laboratory of Ceramics and Refractories, College of Materials and Metallurgy, Wuhan University of Science and Technology, Wuhan 430081, China ² Physics & Materials Science, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong, China.	Growth of Well-Aligned ZnO Nanorod Arrays on Si Substrate by Thermal Evaporation of Cu-Zn Alloy Powders
2.3	O30	G. Balakrishnan¹, P. Kuppasami², R. Thirumurugesan², E. Mohandas² and D. Sastikumar¹ ¹ National Institute of Technology, Tiruchirapalli-620015, Tamilnadu. ² Physical Metallurgy Division, Indira Gandhi Centre for Atomic Research, Kalpakkam-603 102, Tamilnadu.	Microstructural and Optical Properties of Alumina Thin Films Prepared by Pulsed Laser Ablation
2.3	O31	D. Shanmukaraj^{1,2}, R. Murugan², P. Malarvizhi³, G. X. Wang^{1,4} and H. K. Liu¹ ¹ Institute for Superconducting and Electronic materials, University of Wollongong, Wollongong, NSW 2522, Australia. ² Department of Physics, Pondicherry Engineering College, Puducherry 605014, India. ³ SRM Deemed University, Katankulathur, Chennai, India ⁴ School of Mechanical, Materials and Mechatronic Engineering, University of Wollongong, Wollongong, NSW 2522, Australia.	Effect of Cobalt doping on the electrochemical properties of LiFe _{1-x} Co _x PO ₄ /Carbon composite cathode materials synthesized by citrate- gel technique
2.3	O32	Swati Shandilya¹, K. Sreenivas¹, R S Katiyar² and Vinay Gupta¹ ¹ Department of Physics and Astrophysics, University of Delhi, Delhi-110007, India. ² Department of Physics and Astrophysics, University of Puerto Rico, San Juan, Puerto Rico- 00931.	Synthesis of an Array of Ferroelectric PbTiO ₃ Nanorods by Pulse Laser Deposition

ORAL PRESENTATIONS SCHEDULE

Parallel Session 3

Chair Person: Dr. S.S. Rathod

Date: 04.01.2008

Time: 12.00 - 13.00 hrs

Venue: Main Hall, PEC Auditorium

Session No.	Paper No.	Author with Address	Paper Title
3.1	O33	<i>R.Elansezhian¹, B.Ramamoorthy¹ and P.Kesavan Nair²</i> ¹ Manufacturing Engg. Section, Dept. of Mechanical Engg, IITM , Chennai - 600036, India. ² Dept. of Metallurgical & Materials Engineering, IITM , Chennai -600036, India.	Electroless (Ni-P) Microcoatings: Processing and Characterization Techniques
3.1	O34	<i>P. Ramesh Babu¹, Shankar Narasimhan² and R. Nagarajan²</i> ¹ Department of Electronics and Instrumentation Engineering, Pondicherry Engineering College, Puducherry, India. ² Department of Chemical Engineering, Indian Institute of Technology Madras, Chennai-36, India.	Particulate Source Apportionment in Clean Rooms Using Nonnegative Matrix Factorization
3.1	O35	<i>Tarani Chaitanya Chinta, Sudeendrakumar K and K.K. Mahapatra</i> Electronics and Communication Department, National Institute of Technology, Rourkela, PIN-769008, India.	Implementation of Controller Area Network and its Application to Monitoring the Temperature
3.1	O36	<i>M.K.Shobana and S.Sankar</i> Department of Physics, College of Engineering, Anna University, Chennai, Tamil Nadu, India.	Finite Size Effects on Structural and Magnetic Properties of Ni _{10.2} Co _{0.8} Fe ₂ O ₄ Nanoparticles Prepared by Sol - Gel Combustion Method

ORAL PRESENTATIONS SCHEDULE

Parallel Session 3

Chair Person: Dr. A.K. Arora

Date: 04.01.2008

Time: 12.00 - 13.15 hrs

Venue: Multipurpose Hall, PEC Auditorium

Session No.	Paper No.	Author with Address	Paper Title
3.2	O37	<i>D. De^{1,2}, P. Godara¹, S. Ram², S. K. Roy¹ and A. Banerjee³</i> ¹ Department of Metallurgical and Materials Engineering, Indian Institute of Technology, Kharagpur, 721 302, India. ² Materials Science Centre, Indian Institute of Technology, Kharagpur, 721 302, India. ³ UGC-DAE Consortium for Scientific Research, Indore centre, Indore 452 017, India.	Synthesis of (La _{1-x} Eu _x) _{0.67} Ca _{0.33} MnO ₃ Nanoceramics of CMR Properties
3.2	O38	<i>G. P. Singh and S. Ram</i> Materials Science Centre, Indian Institute of Technology, Kharagpur-721 302, India.	Synthesis and Photoluminescence Properties in Nanostructured Ag@CrO ₂ Particles
3.2	O39	<i>Shibu Saha, K. Sreenivas and Vinay Gupta</i> Department of Physics and Astrophysics, University of Delhi, Delhi-110 007, India.	Temperature Dependent Optical Properties of ZnO Film using Surface Plasmon Resonance Technique
3.2	O40	<i>R.Thiyagarajan¹, M.Mahaboob Beevi² and M.Anusuya³</i> ¹ Ururu Dhanalakshmi College, Trichy, Tamilnadu, India. ² Trichy Engineering College, Trichy, Tamilnadu, India. ³ ISSRE, Thennur, Trichy, Tamilnadu, India.	Dielectric Properties of Aluminium Doped Zirconium Sulphide Thin Films Formed by Conventional Spray Pyrolysis
3.2	O50	<i>H. Seshadri^{*1}, V. Sridharan², P. Sasidhar¹, P.K. Sinha³, V.S. Sastry² and C.S. Sundar²</i> ¹ Safety Research Institute, AERB, Kalpakkam 603102 ² Materials Science Division, Indira Gandhi Centre for Atomic Research, Kalpakkam 603102. ³ Centralized Waste Management Facility, BARC Facilities, Kalpakkam 603 102.	Photocatalytic degradation of EDTA using nano sized β-Gallium Oxide

ORAL PRESENTATIONS SCHEDULE

Parallel Session 3

Chair Person: Dr. Ling Li

Date: 04.01.2008

Time: 12.00 - 13.00 hrs

Venue: Seminar Hall, PEC Auditorium

Session No.	Paper No.	Author with Address	Paper Title
3.3	O41	<i>S.S.Prasad¹ and Anupam Singh²</i> ¹ Dept. of E.C.E, National Institute of Technology, Jamshedpur-831014, India. ² Dept. of E.E, National Institute of Technology, Jamshedpur-831014, India.	RFID Review and its Current Uses
3.3	O42	<i>P. Chakraborty¹, S.S. Mahato¹, T.K.Maiti¹, S.Saha² and C.K.Maiti¹</i> ¹ Electronics and ECE Department, IIT Kharagpur, Kharagpur-721302, India. ² Dept. of Physics and Technophysics, Vidyasagar University, Midnapore-721102, India.	Tungsten Nanocrystal (W-NC) Flash Memory Cell
3.3	O43	<i>Venkatachalam Jayalakshmi, Ramaswamy Murugan and Balan Palanivel</i> Department of physics, Pondicherry Engineering College, Puducherry - 605 014, India.	Optical Properties of CuMO ₂ (M=Al, Ga, In) Delafossite Compounds
3.3	O44	<i>S. S. Mahato¹, T. K. Maiti¹, P. Chakraborty¹, S. K. Sarkar² and C. K. Maiti¹</i> ¹ Electronics and ECE Department, IIT Kharagpur, Kharagpur-721302, India. ² ETCE Department, Jadavpur University, Kolkata-32, India.	Performance Enhancement in Scaled Strained-Si/SOI MOSFETs with High-k Gate Dielectrics

ORAL PRESENTATIONS SCHEDULE

Parallel Session 3

Chair Person: Dr. Mehta Dharendra Ravichand

Date: 04.01.2008

Time: 12.00 - 13.15 hrs

Venue: ECE Seminar Hall

Session No.	Paper No.	Author with Address	Paper Title
3.4	O45	<i>Uma.S¹, Anbarasi. M.S² and Uma.G.V¹</i> ¹ Department of Computer Science and Engineering, Anna University, Chennai - 25, India ² Department of Information and Communication, Anna University, Chennai - 25, India	Optimised Fault Detecting Test Suite for Efficiency
3.4	O46	<i>C.N.Arulanandraj¹, D.Agilandeswari² and V.Gopal¹</i> ¹ Mother Theresa Institute Of Health Sciences, College of Pharmacy, Puducherry, India. ² Appasamy Ocular Devices (P) Ltd., Vadamangalam, Puducherry, India.	Development of Jambolan (Syzygium Cumini) Nanosphere Drug Delivery System for Better Anti-Diabetic Therapy
3.4	O47	<i>V.Devadoss, A.Manohar, M.Kottaisamy and C.Christopher,</i> Department of Chemistry/Centre for Nanotechnology, Kalasalingam University, Krishnan koil, Anandnagar, Tamil Nadu – 626 190.	Synthesis and Characterization of Silica Encapsulated Cadmium Complex Luminescent Nonmaterials for LED Lighting Applications
3.4	O48	<i>Ramakrishnan Sridarane¹⁺, T. Kaliyappan¹, S. Subramanian¹ and Ramaswamy Murugan²</i> ¹ Department of Chemistry, Pondicherry Engineering College, Puducherry 605 014, India. ² Department of Physics, Pondicherry Engineering College, Puducherry 605 014, India. ⁺ Present address: Department of Chemistry, PKIET, Karaikal, Puducherry, India.	Synthesis of Barium Titanate Nanopowders using Copolymeric Precursor Method
3.4	O49	<i>A.Manohar, V.Devadoss, M.Kottaisamy and C.Christopher</i> Department of Chemistry / Centre for Nanotechnology, Kalasalingam University, Krishnan Koil, Anandnagar, Tamilnadu - 626 190, India.	Silica Encapsulated Aluminium Complex Nano Materials for LED Lighting Applications