

Detailed Program – CODEC-06

December 18, 2006

(With Presentation IDs)

Presentation ID Format: (Day)(Type of Presentation)(Hall)(Time in 24-hr Format)_(Serial no.)(Mode)

Day : **M** =Monday; **T**=Tuesday; **W**=Wednesday

Type of Presentation: **P**= Plenary; **I**= Invited; **S**= Special (Industrial) Session; **C**= Contributory

Mode (for contributory papers only): **O**=Oral; **P**=Poster

HALL – L1: J. N. BHAR HALL (**JNB**) ; L2: A. K. CHOUDHURY HALL (**AKC**); L3: S. K. MITRA HALL (**SKM**)

U1: M. K. DASGUPTA HALL (**MDG**); U2: B. R. NAG HALL (**BRN**); L12 (L1&L2 merged) or L23 (L2&L3 merged): A.K SEN HALL (**AKS**)

L1, L2 & L3 (merged)- Regency Ball Room (**RBR**)

Examples: **WSAKS1415_4** : (Wednesday)(Special)(A K Sen Hall)(1415)_(4th particular presentation)

MCSKM1230_10 : (Monday)(Contributory)(S K Mitra Hall)(1230)_(1st particular presentation)(Oral)

All are requested to use their “**Presentation IDs**” for any future Reference.

For Oral Presentation: LCD projectors and computers will be provided at the conference; no overhead projection facility using transparencies will be there. Speakers are requested to send their presentations to codec06prog@yahoo.com well in advance. The presentation will be uploaded in the machines beforehand to avoid any undesirable delay. They are requested to check their presentations one-day in advance at the “**Program Desk**”.

[They may carry the softcopies of their presentations (in CD/Flash-drive) also with them during the conference. This may be needed in case any problem is found with the files sent.]

Presentation Time: 20 mins (Presentation) + **5 mins** (Discussion) **for Invited Paper**

12 mins (Presentation) + **2 mins** (Discussion) **for Contributory Paper:**

For Poster Presentation: Each poster should fit on a **1m x 1m** board to be supplied at the venue for poster display. The posters should be displayed on boards with “Presentation IDs” marked on them. The presenters must confirm their participation to the “**Program Desk**” on 18th December, 06. **Board pins** will be supplied at the venue.

Please note: *Experts will also be there to judge the posters for Award.*

December 18, 2006

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08:30	REGISTRATION
09:00	Inaugural Function
	REGENCY BALL ROOM
	Keynote Speech: MKRBR0900_1
	Chairperson: Hiroshi Iwai Speaker: Henrique Malvar Topic: <i>Ensuring Microsoft's Future: An Overview of Microsoft Research.</i>
10:30	HIGH TEA
11:00 -12:30	Plenary Talks (2)
	HALL -L12 (A.K.SEN HALL)
	Chairperson : Jamal Deen
	MPAKS1100_1 Hiroshi Iwai: <i>Nano CMOS Manufacturing</i>
	MPAKS1100_2 U Mishra :
12:30 - 14:00	Parallel Technical Sessions (Pre-Lunch)
	HALL -L12 (A.K.SEN HALL)
	EDM : Chairperson : Hiranmoy Saha
	Invited: MIAKS1230_1 Binu Mukherjee <i>Non Linear Characterization of Piezoelectric Materials for Smart Structures and MEMS</i>

	<p>Invited: MIAKS1230_2 Michitaka Kameyama <i>Prospects of Intelligent Integrated Systems for Real World Applications</i></p>
	<p>MCAKS1230_10 : T. Sahu, J. Patnaik, A. Chakaraborty and C. K. Sarkar <i>Low Temperature Electron Mobility in a BarrierDelta-Doped GaAs / Al_xGa_{1-x}As Double Heterostructure</i> (EDM-14)</p> <p>MCAKS1230_20 : Manju K. Chattopadhyay and S Tokekar <i>Analytical Model for the Gate Capacitance of Al_mGa_{1-m}N / GaN HEMTs including Non-Linear Polarization</i> (EDM-24)</p> <p>MCAKS1230_30: Anil Ahlawat and Sujata Pandey <i>An ANN model for a 70 nm gate Length InGaAs/InP HEMT.(EDM-44)</i></p>
12:30 – 14:00	<p style="text-align: center;">HALL – L3 (S.K.MITRA HALL)</p> <p>RSS : Chairperson : S K Sarkar</p> <p>Invited: MISKM1230_1 Kalyan Bandyopadhyay and M.R. Sivaraman <i>Ionospheric Studies for the Implementation of GAGAN.</i></p> <p>Invited: MISKM1230_2 P. Banerjee <i>Time Comparison through GPS: A Review.</i></p>

	<p>MCSKM1230_10 Rajat Acharya, Nishkam Jian, Neha Nagori, Surendra Sunda, M.R. Sivaraman and KalyanBandopadhyay <i>Ionospheric Correlation Analysis for GAGAN.(RSS-11)</i></p> <p>MCSKM1230_20 Quddusa Sultana, A.D.Sarma and P.V.D. Somasekhar <i>Enhancing the Performance of GAGAN using Pseudolites .(RSS-26)</i></p> <p>MCSKM1230_30 Dhiraj Sunehra, D. Venkata Ratnam and A.D. Sarma <i>Prominent Methods For Estimation of Instrumental Biases for GAGAN Application. (RSS-49)</i></p>
12:30 – 14:00	HALL – U1 (M.K.DASGUPTA HALL)
	CNA : Chairperson : Debesh Das
	Invited: MIMDG1230_1 Goutam Chakraborty <i>Intelligent Algorithms in Wireless Ad-hoc Sensor Networks</i>
	MCMDG1230_10 Jayesh Kataria, P. S. Dhekne and Sugata Sanyal <i>A Scheme to Control Flooding of Fake Route Requests in Ad-hoc Networks(CNA-10)</i>
	MCMDG1230_20 Saurabh Mehta and Shoaib Mukhtar <i>Topology Generation Algorithm for Sensor Networks (CNA-24)</i>
MCMDG1230_30 Yongguang Liu, Wu Ye and Suili Feng <i>An Improved Algorithm for Multi-constrained Routing.(CNA-16)</i>	
MCMDG1230_40 Mohuya Chakraborty and Iti Saha Misra <i>Mobile Multi-Layered IPsec in TLMM: A Three Level Mobility Model for Next Generation Wireless IP-Based.Networks.(CNA-20)</i>	
MCMDG1230_50 Prativa Rai, Mousum Handique, S.R.Biradar, and Dhiren K.D Sarma <i>Energy Efficient Hierarchical Cluster Based Communication Protocol for Wireless Sensor Network with Base Station Mobility(CNA 28)</i>	

HALL – U2 (B.R.NAG HALL)	
	OLT : Chairperson : Samir K. Lahiri
	Invited: MIBRN1230_1 Ranjan Gangopadhyay <i>Design and Optimization of Optical Transmission Link Employing Distributed Optical Amplifier</i>
12:30 - 14:00	<p>MCBRN1230_10 Himadri Sekhar Dutta and N. R. Das <i>On the Frequency Response of a Resonant Cavity Encapsulated Germanium Schottky Photodiode.(OLT-39)</i></p> <p>MCBRN1230_20 B.N. Biswas, A Bhattacharya and N. Goswami <i>Optical Microwave Generation Using Modified Sideband Injection Synchronization.(OLT-50)</i></p> <p>MCBRN1230_30 Sanjeev Kumar Raghuwanshi and Srinivas Talabattula <i>Fiber Design to Achieve Flat Gain Amplification for Fiber Raman Amplifier.(OLT- 4)</i></p> <p>MCBRN1230_40 Tathagata Bhowmick, Utpal Das, Anurag Nigam and Avijit Singh <i>Absorption Profile of Quantum Well Intermixed InGaAsP/InP Waveguide Photodiode Structures.(OLT-20)</i></p> <p>MCBRN1230_50 M.S. Islam and S.P. Majumder <i>Analytical Performance Evaluation of an Optical Heterodyne CPFSK System Impaired by Polarization Mode Dispersion in a Single Mode Fiber(OLT-24)</i></p>
14:00	LUNCH BREAK

	Parallel Technical Sessions (Post-Lunch)
	HALL – L1 (J.N. BHAR HALL)
	TEA : Chairperson : Goutam Chakrabarty
	Invited: MIJNB1445_1 Alessandro Neri, Giuseppe Papari, Patrizio Campisi and Nicolai Petkov <i>Multiresolution Contour Detection Using Two-Level Surround Inhibition</i>
	MCJNB1445_10 Mahua Bhattacharya and Arpita Das <i>FPGA Based Embedded System for Medical Image Enhancement Technique used in Mask Mode Radiography(TEA-34)</i>
	MCJNB1445_20 Narender Kumar , D. Datta, and D. Sarkar <i>Voice-Packet Multiplexing for Handoff Management in Mobile Communication Systems.(TEA-46)</i>
	MCJNB1445_30 R. Mukhiya, A. Bagolini, M. Zen, and S. Kal <i>Study of <110> Square Corner Compensation and EtchFlow Mechanism for Anisotropic TMAH etching: Experimental(TEA-54)</i>
	MCJNB1445_40 Nabarun Bhattacharya, Devdulal Ghosh, Arun Jana, Bipan Tudu and Rajiv Bandhopadhyaya <i>Fish Smell Classification using Electronic Nose.(TEA-39)</i>
14:45-16:00	
	HALL – L2 (A. K. CHOUDHURY HALL)
	ANP : Chairperson : Y.M.M. Antar
	Invited: MIAKC1445_1 Ian Andrew Glover and F. Tong <i>Distributed Antennas</i>
14:45 - 16:00	

	<p>MCAK1445_10 Chandrakanta Kumar, V. V. Srinivasan, V. K. Lakshmeesha and S. Pal <i>High Efficiency, Compact Axially Displaced Ellipse Reflector Antenna for Satellite Application (ANP-5)</i></p> <p>MCAK1445_20 B.S. Paul and R. Bhattacharjee <i>Studies on the Mutual Coupling in One Ring MIMO Channel Simulation Model.(ANP-22)</i></p> <p>MCAK1445_30 Q. Md. Alfred, S.K. Sanyal and T. Chakrabarty <i>Programmable phased Array Antenna Design for Sum and Difference Pattern Generation in Scanning and tracking by Radar.(ANP-24)</i></p> <p>MCAK1445_40 S.K.Behara, D.R. Poddar and R.K. Mishra <i>Dual Active Integrated Antenna.(ANP-44)</i></p>
14:45 - 16:00	<p style="text-align: center;">HALL – L3 (S.K.MITRA HALL)</p> <p>RSS : Chairperson : Daniel Vanhoenacker Janvier</p> <p>MCSKM1445_10 Surendra Sunda, Sawar Mal Regar, Rajat Acharya and M.R. Sivaraman <i>TEC Estimation for Real Time Implementation of Satellite Navigation in GAGAN.(RSS-28)</i></p> <p>MCSKM1445_20 N.M. Saikia, B. Tiru, P.K. Boruah and K. Boruah <i>Searching of Radio Signal Associated With UHE Cosmic Ray Air Showers in the VLF Range. (RSS-41).</i></p> <p>MCSKM1445_30 M. Irulappan and P. H. Talukdar <i>Improved Ionospheric Estimation Algorithm for GAGAN.(RSS-57)</i></p> <p>MCSKM1445_40 Soma Banik and Barin Kumar De <i>A Seasonal Study of 21.5 kHz VLF Sferics Recorded at North-Eastern State Tripura.(RSS-34)</i></p>

	<p>MCSKM1445_50 P.K.Bhuyan, Rahmi Rekha Borah and K.Bhuyan <i>Response of the Indian Equatorial and Low Latitude Ionosphere to changes in the Sun Earth Space Weather System during Two Periods of Intense Geomagnetic activity in July and November 2004 (RSS-14)</i></p> <p>MCSKM1445_60 Rajasri Sen Jaiswal, P.Geetha and S.Uma <i>Estimation of Cross Polarization due to Rain Over Few Stations in India. (RSS-32)</i></p>
<p>14:45 - 16:00</p>	<p>HALL – U1 (M. K. DASGUPTA HALL)</p>
	<p>CIS : Chairperson : Ajit Mondal</p>
	<p>Invited: MIMDG1445_1 Asoke K. Nandi <i>ICA Based Blind OFDM Receiver for MIMO Systems.</i></p>
	<p>MCMDG1445_10 Kumar Yelamarthi <i>A Sub-nanosecond Low-Power High-Performance 64-bit Adder.(CIS – 3)</i></p> <p>MCMDG1445_20 Balaji Jayaraman and Navakanta Bhat <i>A Temperature Independent Current Source on 130nm CMOS Technology. (CIS-13)</i></p> <p>MCMDG1445_30 Neeta Pandey, Sajal K.Paul, S.B.Jain and A.Bhattacharyya <i>Electronically Tunable Current Mode Universal Filter: MIMO Approach (CIS-2)</i></p> <p>MCMDG1445_40 A.Ramakrishn and, M.J.Nigam <i>Computationally Efficient Design of FIR QMF Banks(CIS-4)</i></p>

	HALL – U2 (B.R.NAG HALL)
	MMT : Chairperson : B.N.Biswas
	Invited: MIBRN1445_1 K.C Gupta <i>Application of Artificial Neural Networks to RF Design and Web-Based Education.</i>
	MCBRN1445_10 Santanu Dwari and Subrata Sanyal <i>Impact Ultra-Wideband Bandpass Filter Using Parallel-Coupled Microstrip Line and Defected Ground Structure(MMT-4)</i>
	MCBRN1445_20 Priyanka Mondal and Ajay Chakrabarty <i>Planar Compact, Wideband Bandpass Filters with Wide Upper Stopband.(MMT-9)</i>
	MCBRN1445_30 Susanta Kumar Parui and Santanu Das <i>Double Plane Electromagnetic Bandgap Structure for Compact Microstrip Filter Design.(MMT-12)</i>
	MCBRN1445_40 R.K. Singh, P.K. Jain and B.N. Basu <i>Nonlinear Analysis of a Dielectric-Rod Loaded Gyro-Traveling Wave Tube Amplifier.(MMT-15)</i>
	MCBRN1445_50 Apurba Bhattacharya, J. Thakkar, S. M. Srivastava and V. K. Garg <i>Design of MMIC Variable Gain Amplifiers with Analog and Digital Gain Control for Satellite Transponder.(MMT-24)</i>
14:45 - 16:00	
16:00	TEA BREAK
16:15-17:05	Parallel Technical Sessions (Post-Tea)
	HALL – L1 (J.N.BHAR HALL)
	EDM : Chairperson : Debidas Mukhopadhyay
	Invited: MIJNB1615_1 Daniel Vanhoenacker Janvier, Majid El Kaamouchi and Mehdi Si Moussa <i>Silicon-On-Insulator (SOI) for High Temperature Applications.</i>

	<p>MCJNB1615_10 R. M. Todi , K.B. Sundaram and K. R. Coffey <i>Work Function Engineering: Band Edge Metals for PMOS.(EDM-36)</i></p> <p>MCJNB1615_20 Chandan Giri, B. Naveen Kumar and Santanu Chattopadhyay <i>Multiple Scan Chain For Power and Delay Minimization during Test.(EDM-27)</i></p>
16:15-17:05	HALL -L2 (A. K. CHOUDHURY HALL)
	TEA: Chairperson : Sugata Sanyal
	<p>MCAK1615_10 P. V. Bijumon, A. P. Freundorfer, M. Sayer and Y. M. M. Antar <i>Ultra-Low Temperature Synthesis Of Ba₂ Ti₉ O₂₀ Ceramics For Applications in Integrated Dielectric Resonator Circuits.(TEA-14)</i></p> <p>MCAK1615_20 Federica Battisti, Marco Carli, Alessandro Neri and Karen Egiazarian <i>A Generalized Fibonacci LSB Data Hiding Technique.(TEA-50)</i></p> <p>MCAK1615_30 A.K. Kundu and B. Bandopadhaya <i>Reconstruction Algorithm for Microwave Tomography using Iterative Regularized Gauss-Newton Method.</i> (TEA-60)</p> <p>MCAK1615_40 S. T. Patil and D.S. Bormane <i>Electroencephalograph Analysis during Basarika.(EDM-28)</i></p>

16:15-17:05	HALL –L3 (S.K.MITRA HALL)
	RSS: Chairperson : P. Banerjee
	MCSKM1615_10 N. Sengupta and I. A. Glover <i>Remote Sensing of Radio Ducts using Wind Profilers.(RSS-18)</i>
	MCSKM1615_20 L. K. Bandyopadhyay, S. Kumar, P. K. Mishra, D. Selvendran and A. Narayan <i>Studies on Radio Frequency Propagation Characteristics for Underground Coalmine Communication</i> (RSS-19)
16:15-17:05	HALL –U1 (M.K.DASGUPTA HALL)
	CIS : Chairperson : Amitava Das
	Invited: MIMDG1615_1 Miguel Angel Lagunas and Ana I. Perez-Neira <i>Multichannel Processing: Objective and Constraints.</i>
	MCMDG1615_10 Anup Dandpat, Niladri Narayan Mojumder, D. Mukhopadhyay and Partha Bose <i>Power-Performance Optimization of an 8-Bit Multiplier using Transmission Gates. (CIS-19)</i> MCMDG1615_20 Ye Wu, Xu Zhu, Asoke.K.Nandi and Yi Huang <i>Turbo Space-Frequency Equalization with Adaptive Channel Estimation (EDM-50)</i>

	HALL – U2 (B.R.NAG HALL)
	OLT : Chairperson : Ranjan Gangopadhyay
16:15-17:05	<p>MCBRN1615_10 Sanjay Kumar C. Gowre, Prasant Kumar Sahu, J.C. Biswas , Manjula S, Uday N. K. and Nagashetty Biradar <i>Utilization of Genetic Algorithm for the Efficient Analysis of Microstructured Optical Fiber(OLT-12)</i></p> <p>MCBRN1615_20 Abhirup Das Burman and P.K. Basu <i>Coherent Inband Crosstalk Introduced Power Penalty in Amplified Wavelength Division Multiplexed Networks:A Comparative Study Using Gaussian and Chi-Squared Probability Distribution Functions.</i> (OLT-47)</p> <p>MCBRN1615_30 Casimer DeCusatis and Pankaj Das <i>Passive Alignment and Design Considerations for Optical Printed Circuit Board. (OLT-15)</i></p> <p>MCBRN1615_40 Ram Krishna Sarkar and S. Medhekar <i>Spatial Soliton Pairing In Nonlinear and Radially Inhomogeneous Media. (OLT-48)</i></p>
17:05	BREAK
	Plenary Talk (1) (J. N. B HALL)
17:15-18:00	Chairperson : B.P.Sinha
	<p>MPJNB1715_1: Biswanath Mukherjee <i>Implications of Emerging Optical Technologies On Future Internet</i></p>

December 19, 2006

December 19, 2006

09:00 -10:30	Plenary Talks (2) (A. K. S. HALL)
	Chairperson : Henrique Malvar
	TPAKS0900_1 Jamal Deen <i>Highly Sensitive Low-Cost Integrated Biosensors.</i>
	TPAKS0900_2 Georges Gielen <i>Opportunities and Challenges for Wireless Communications in Nanometer CMOS.</i>
10:30-13:15	TEA & POSTER SESSION. (S.K.MITRA HALL)
	POSTERS
	TCSKM1030_1P: Sanjib Kr. Kalita, R. Dutta and P.H. Talukdar <i>A Special Analysis of Bodo and Assamese Vowels (ADC-10)</i>
	TCSKM1030_2P: Yonanda Adhitama and Michitaka Kameyama <i>Real-Time Register-Transfer Level Optimization for a Dynamically Reconfigurable VLSI Processor (ADC-12)</i>
	TCSKM1030_3P: Yoshichika Fujioka, N. Tomabechi, Md. M. Haque and M. Kameyama <i>Functional Unit Level Packet Data Transfer Scheme for a highly Parallel VLSI Processor (ADC-13)</i>
TCSKM1030_4P: Barnali Pal <i>Text Generator of Angla Bangla : An English to Bengali Machine Aided Translation System (ADC- 7)</i>	

10:30-13:15	TCSKM1030_5P: Arindrajit Ghosh, Surajit Sarkar and Swapna Banerjee <i>A Low Power 8-bit 200MS/s Pipelined Analog-to-Digital Converter in 0.25 μ SiGe BiCMOS Process (CIS-17)</i>
	TCSKM1030_6P: Saurabh Chaudhury, Anish Thenatill and Santanu Chattopadhyaya <i>AND-OR/XOR Logic Decomposition – An Efficient Method for Two-level Area Minimization (CIS-26)</i>
	TCSKM1030_7P: Rajesh Kumar, A. K. Saxena and S. Dasgupta <i>Controlled Slew Rate Output Buffer over Process Voltage and Temperature (CIS-27)</i>
	TCSKM1030_8P: Santi P. Maity and Seba Maity <i>Design of Hilbert Transform Using Discrete Wavelets(EDM-54)</i>
	TCSKM1030_9P: Srujana Kumari Ilindra and Kumardeb Banerjee <i>A Compact Flash Card based Bulk Storage Memory for Stand-alone Embedded Applications (CIS-20)</i>
	TCSKM1030_10P: Santanu Dwari and Subrata Sanyal. <i>Broad – Band Microstrip Branch – Line Coupler (MMT-3)</i>
	TCSKM1030_11P: Susanta Kumer Parui and Santanu Das. <i>Coupling Enhancement of Parallel Transmission Lines Using Defected Ground Structure (MMT-14)</i>
10:30-13:15	TCSKM1030_12P: Debasis Mishra, G. Arun Kumer, D. R. Podder and R. K. Mishra. <i>Short Circuit Zeroth Order Resonator(MMT-22)</i>
	TCSKM1030_13P: G. Arun Kumar, Debasis Mishra, D. R. Podder and R. K. Mishra. <i>Parametric Study of Metamaterials Using CRLH Transmission Line (MMT-28)</i>
	TCSKM1030_14P: Sunny Mathew, Michael Augustine and Vincent Mathew. <i>Spectral Domain Computation of Dispersion in Microstrip Circuit Structures on Magnetized Ferrites (EDM-53)</i>
	TCSKM1030_15P: S. K. Banerjee. <i>Doppler Weather Radder – an Indian Experience (MMT-11)</i>
	TCSKM1030_16P: Lakshmi Narayana Rao G. and K. C. James Raju. <i>Planar Type Band Pass Filter Using a High – K Substrate (MMT-21)</i>
	TCSKM1030_17P: Madhumita Bhattacharya and Taraprasad Chattopadhyay. <i>An all – Optical Microwave / Millimeter Wave Notch Filter(OLT-6)</i>
	TCSKM1030_18P: Manjeet Singh, Surender Duhan, Manoj Sapra and Praveen Aghamkar. <i>Role of Magnetic Field on Gain of Stimulated Scattering Processes in Doped Semiconductors (OLT-11)</i>

	TCSKM1030_19P: Sanjeev Kumar Raghuwanshi and Srinivas Talabattula. <i>Computational Method for Analysis of 3-D Rectangular Waveguide: A 2-D Finite Element Approach.</i> (OLT-13)
10:30-13:15	TCSKM1030_20P: Meer Nazmus Sakib, Md. Nazmul Alam, Redwan Noor Sajjad and S. P. Majumder. <i>Impact of Cross-Phase Modulation on the Performance of a WDM Optical Transmission System with Short-Period Dispersion-Managed Fiber</i> (OLT-22)
	TCSKM1030_21P: P. K. Sahu, J. C. Biswas and S. Mahapatra. <i>Design and Simulation of Multi Channel FBG based Dispersion Compensator for Communication Application Using an Inverse Scattering Algorithm</i> (OLT-25)
	TCSKM1030_22P: P. K. Sahu, J. C. Biswas, K. G. Rajulu and M. B. N. V. Prasad, P. Mishra and Barun Dev Paul <i>Design and Simulation of Gain Flattening Filter for WDM Applications</i> (OLT-30)
	TCSKM1030_23P: P. Chakrabarti and Sanjeev. <i>Analytical Model of a Mid-Infrared (MIR) Double Heterostructure Light Emitting Diode (DH-LED) for Gas Sensor Instrumentation System</i> (OLT-36)
	TCSKM1030_24P: S. P. Majumder and Md. Saifuddin Faruk. <i>Performance Degradation Imposed by FWM in a Subcarrier Multiplexed WDM Transmission System</i> (OLT-40)
	TCSKM1030_25P: Jaswinder Singh and Maninder Lal Singh. <i>Analysis of Codes for Differential Detection Optical CDMA Systems</i> (OLT-41)
	TCSKM1030_26P: Partha Goswami, Aneek Adhya, Soumya K. Ghosh and Debasish Datta. <i>Traffic-Aware Lightpath Topology Design for Survivable WDM Networks</i> (OLT-46)
	TCSKM1030_27P: Punya P. Paltani and S. Medhekar. <i>Theoretical Investigation of Directional Couplers and Their Synchronization</i> (OLT-49)
	TCSKM1030_28P: Santu Sarkar and N. R. Das. <i>A Comparative Study of Different Cross-Talk Noises in a WDM System</i> (EDM-60)
10:30-13:15	TCSKM1030_29P: Soumendu Jana, S. Konar and Manoj Mishra. <i>Two-Component Composite Spatial Solitons Supported by Cross Phase Modulation</i> (OLT-53)
	TCSKM1030_30P: B.K. Yadav, S.A.M. Rizvi, R. Mehrotra and H.C. Kandpal <i>A Novel Technique to Encode Information For Free-Space Communication</i> (TEA-15)
10:30-13:15	TCSKM1030_31P: C.Saha, M. Bhattacharya, K. Chanda and D. Mazumdar <i>A Novel Stistical Steganalysis to attack Hide4PGP in Speech Signal.</i> (TEA-21)
	TCSKM1030_32P: Tirtha S. Das, Ayan K. Sau , V. H. Mankar and Subir K. Sarkar <i>Multimedia Steganographic Scheme Using Multiresolution Analysis</i> (TEA-23)

10:30-13:15	TCSKM1030_33P: Ms. M. Chattopadhyay, Ms. M. Saha and Ms. M. Dutta <i>Performance Analysis of a Simulated Mems Pressure Sensor (TEA-27)</i>
	TCSKM1030_34P: A. Karmakar, S. K. Sarkar, S. C. Das and T. Datta <i>Neuro-genetic approach for better nanodevice modeling (TEA-28)</i>
	TCSKM1030_35P: A. K. Verma, Mayank Dave and R. C. Joshi <i>Securing AD HOC Networks with DNA Cryptography (TEA-30)</i>
	TCSKM1030_36P: Rinki Bhadra, Jyoti P. Borah, K. C. Sarma, P. Datta and Jayanta Barman <i>Synthesization and Characterization of ZnS and ZnO Nanocrystals(TEA-31)</i>
	TCSKM1030_37P: B. Tiru, N. M. Saikia and P. K. Boruah <i>Study of Data Transfer from PC Modem to Modem via Household Power Line (TEA-38)</i>
	TCSKM1030_38P: Himadri Sekhar Dutta and Nilarun Mukherjee <i>Design of Quantum FlipFlop Circuits using Reversible Logic(TEA-40)</i>
	TCSKM1030_39P: V. Sivaji Reddy, S. Das, A. Dhar and S. K. Ray <i>Role of Annealing Environment on the Properties of ITO Thin Films for Organic Light Emitting Diodes (TEA-42)</i>
	TCSKM1030_40P: Amlan Chakrabarti, Susmita Sur-Kolay and Mousumi Malakar <i>A Programming Model for Quantum Circuit Simulator (TEA-48)</i>
	TCSKM1030_41P: Pijush Biswas and Devmalya Banerjee <i>Identification of Important Residues of HIV-1 gp41 in the Entry Mechanism of HIV virion in target cell through in silico protein interaction study (TEA-55)</i>
	TCSKM1030_42P: Saurav Ghosh and Rajat K. Pal <i>Association Rule Mining: A Graph Based Approach (TEA-57)</i>
10:30-13:15	TCSKM1030_43P: Ranjini R. Mohan and T. Alagesan <i>Study of Third Order Nonlinearities in Methylene Blue Using Z-SCAN (TEA-08)</i>
	TCSKM1030_44P: V. Kumar and A. K. Rai <i>Remote Monitoring of rock mass deformation using OTDR (TEA-33)</i>
	TCSKM1030_45P: Rahul Thylum and Ajit K. Mandal <i>Classification of Aerial Images into Manmade and Natural Classes (TEA-37)</i>
	TCSKM1030_46P: Amitava Akuli, Abhra Pal and Nabarun Bhattacharyya <i>Granular Dimensionality Estimation and Gradation of Black Tea Using Electronic Vision System (TEA-47)</i>
	TCSKM1030_47P: Uttam Kumar Biswas, Debasish Mondal, Rahul Ghosh, Aritra Das, P. Venkateswaran, S. K. Sanyal and R. Nandi <i>An Adaptive RSA based on Chinese Remainder Theorem for VPNs (CNA-22)</i>

10:30-13:15	TCSKM1030_48P: Arun Kumar Mondal and P. K. Banerjee <i>MACA-RO: A Reduced Overhead MACA Protocol for Multihop Wireless Ad Hoc NetWork</i> (CNA-26)
	TCSKM1030_49P: Mousum Hardique, Prativa Rai, S. R. Biradar and Hiren K. D. Sharma. <i>A Secure Routing Protocol for Wireless Sensor Networks</i> (CNA-29)
	TCSKM1030_50P: Sharmin Parveen, S. K. Sanyal and Shahida Rafique <i>Analysis of Self-Similarity of Multimedia Traffic in a Broadband Network</i> (CNA-30)
	TCSKM1030_51P: Hasan Sarwar, Sharmin Parveen and Shahida Rafique <i>A Modified MAC Layer Protocol</i> (CNA-31)
	TCSKM1030_52P: Shahida Rafique, Md. Abu Hasnat Shahariar and Hasan Sarwar <i>Link Budget: A Proposed Model for Cellular Mobile Communication System for a Metropolitan City</i> (CNA-35)
	TCSKM1030_53P: Saurav Ghosh and Rajat K. Pal <i>Parallel High Performance Routing Algorithms for Rearrangeable Symmetrical Networks</i> (CNA-36)
	TCSKM1030_54P: P. K. Singhal and Deepak Sharma <i>The Design of Folded Slot Log-Periodic Antenna</i> (ANP-10)
10:30-13:15	TCSKM1030_55P: Swaprava Nath and Subrata Mitra <i>Linear antenna Array with Supressed Sidelobe and Sideband Levels using Time Modulation</i> (ANP-27)
	TCSKM1030_56P: Abdulla P, S. Ghosh and A. Chakrabarty <i>Design of a Novel Reflect Array Antenna</i> (ANP-36)
	TCSKM1030_57P: Rowdra Ghatak, Dipak R. Poddar and Rabindra K. Mishra <i>Sierpinski Gasket-Carpet Hybrid Fractal Microstrip Patch Antenna</i> (ANP-37)
	TCSKM1030_58P: S. K. Dash and R. K. Mishra. <i>Simulating Plasma Antenna Using FDTD with DSP</i> (ANP-43)
	TCSKM1030_59P: A. Jafargholi and M. R. Mousavi <i>New Method fro Synthesize of Narrow Beam Width Radiation Pattern</i> (ANP-04)
	TCSKM1030_60P: A. Jafargholi and M. R. Mousavi <i>Mutual Coupling Compensation in VHF-LB Phased Array Antenna Using Parasitic Elements</i> (ANP-06)
	TCSKM1030_61P: A. Jafargholi and M. R. Mousavi <i>Efficient Method for Design Wide Band Null for Circular and Spiral Array Antenna</i> (ANP-20)

10:30-13:15	TCSKM1030_62P: M. G. Mohammadzadeh and J Rashed Mohassel <i>Criteria in Choosing the Elements' Coefficients in Pulse Arrays (ANP-34)</i>
	TCSKM1030_63P: Shazzat Hossain, N. M. Alam Chowdhury and Shahid Ullah <i>Cost Effective Approach of Indoor Antenna Measurement (ANP-40)</i>
	TCSKM1030_64P: K. K. Ghosh Monte Carlo Simulation of Transport and Flicker Noise for Electrons in <i>Quantum Heterostructures</i> (EDM-7)
	TCSKM1030_65P: K. Ghosh, K. Balaraju, S. Dhar, S. T. Ali and V. N. Mani <i>Purification of Gallium by Zone Refining and its Electrical Characterization (EDM-8)</i>
	TCSKM1030_66P: S. P. Pati, S. K. Dash and P. R. Tripathy <i>Computer Simulation on Wide Band ZnS Based Impatt Diodes (EDM-13)</i>
10:30-13:15	TCSKM1030_67P: G. S. Tomar <i>Design of electrically focused bootlace lens for multiple beam.(EDM-20)</i>
	TCSKM1030_68P: Tirtha Pratim Das <i>An Analytical Model of a Tunable Quantum Well Photo Spectrograph (TuQuaWPS) for Radiation Measurements (EDM-31)</i>
	TCSKM1030_69P: A. Ghosal <i>Phonon Band Structure in GaAs/ GaAlAs Superlattices (EDM-33)</i>
	TCSKM1030_70P: Sandeep Kr. Aggarwal, Ritesh Gupta, Mridula Gupta and R. S. Gupta <i>An Analytical Model for Various Gate Geometries (N, L, Γ and T-Gate) of SOI SiC MESFET (EDM-64)</i>
	TCSKM1030_71P: Madhumita Das (Sarkar) <i>An Empirical Relation for the Band Gap of Nitrides and Mixed Nitrides(EDM-65)</i>
10:30-13:15	TCSKM1030_72P: Sneha Kabra, Harsupreet Kaur, Subhasis Halder, Mridula Gupta and R. S. Gupta <i>An Analytical Model for High Temperature Operation of GaN MESFETs (EDM-66)</i>
	TCSKM1030_73P: M. K. Bera, C. Mahata, S. K. Nandi, S. Saha and C. K. Maiti <i>Capacitance Modeling of Lossy Gate Dielectrics (EDM-70)</i>
	TCSKM1030_74P: S. Bhattacharyya , Susmita Sen and N. R. Das <i>Quantized Electron-States in a Semiconductor Quantum Ring in External Electric and Magnetic Fields (EDM-75)</i>
	TCSKM1030_75P: Ravneet Kaur, Rishu Chaujar, Manoj Saxena and R. S. Gupta <i>Gate Oxide Engineered Dual Material Gate Insulated Shallow Extension (GOXDMG-ISE) MOSFET: A New Vent to Wireless Communication (EDM-79)</i>

10:30-13:15	TCSKM1030_76P: S. Chattopadhyay, G. Chakraborty and C. K. Sarkar <i>Study of the Dielectric Characteristics of Silicon Nanocrystallites Embedded in Silicon Dioxide MOS Structure (EDM-87)</i>
	TCSKM1030_77P: Moumita Basak, Abhijit Biswas and P. K. Basu <i>Analysis and Design Optimization of a Transimpedance Amplifier Based on δ-doped AlInAs-GaInAs HEMTs in the Microwave Frequency (EDM-91)</i>
	TCSKM1030_78P: R. S. Raju, Ranjan Barik, Anil Kr. Tanwar and Rahul Varma <i>Ternary-alloy-film Dispenser Cathode (MMT-23)</i>
	TCSKM1030_79P: Tanuja Das, L. M. Joshi and S. C. Nangru <i>Design of Cavity for S-Band Multiple Beam Klystron (EDM-16)</i>
	TCSKM1030_80P: V. Kumar, A. Kumar and B. S. R. Sastry <i>Relationship Between Plasmon Energy, Energy gap, Ionicity and Dielectric Constant of $A^I B^{III} C_2^{VI}$ Chalcopyrites (EDM-43)</i>
	TCSKM1030_81P: A. R. Choudhury, R. K. Sharma, R. K. Gupta and S. N. Joshi <i>3D modeling of Cold Test Characteristics of RF Couplers along with Slow Wave Circuit for Broad Band Helix TWTs (EDM-46)</i>
	TCSKM1030_82P: A. Roy, A. Dhar and S. K. Ray <i>Characteristics of Metal/Ferroelectric/Silicon Structure for Memory Device Applications (EDM-49)</i>
	TCSKM1030_83P: R. Das, S. Chakraborty, M. K. Bera and C. K. Maiti <i>Electrical Reliability Aspects of Ta_2O_5 on Ge-rich $Si_{0.5}Ge_{0.85}$ Heterolayers (EDM-51)</i>
	TCSKM1030_84P: S. P. Majumder, Shamim Reza, S. Bhounik and Tanzima Khaleque <i>Minimization of the Effect of Optical Beat Interference (OBI) in a Subcarrier Multiplexed Optical Transmission System Using Linecoding (EDM-76)</i>
	TCSKM1030_85P: T. D. Das and S. Dhar <i>Growth of InGaAsSb and InGaAsSbN Layers by Liquid Phase Epitaxy (EDM-83)</i>
	TCSKM1030_86P: C. Roy Chaudhury and H. Saha <i>Development of SPICE Compatible Model for Integration of CMOS MEMS Systems (EDM-93)</i>
	TCSKM1030_87P: Rashmi Rekha Borah, K Bhuyan and P. K. Bhuyan <i>TEC Perturbations near the Crest of the Northern Equatorial Ionization Anomaly after the Major Solar Flare Event of 28 October 2003 (RSS-17)</i>
TCSKM1030_88P: Krishna Reddy ,A. D. Sarma and K. Yedukondalu <i>Position Fixing of Mobile User Using RSS Statistics (RSS-21)</i>	

10:30-13:15	TCSKM1030_89P: Surendra Sunda and M. R. Sivaraman <i>Comparison of IRI Model with GPS-TEC Observation over Indian Region (RSS-27)</i>
	TCSKM1030_90P: S. K. Sarkar, Anil Kumar, Iqbal Ahmed, M. M. Gupta and M. V. S. N. Prasad . <i>Rain Attenuation at 13 GHz over a Line of Sight Path in Eastern India (RSS-40)</i>
	TCSKM1030_91P: B. K. De, A. Bhowmik, S. S. De, A. Guha, S. K. Adhikari and B. Bandyopadhyay <i>The VLF Atmospheric as a Precursor to Earthquakes (RSS-50)</i>
10:30-13:15	TCSKM1030_92P: Adhip Bhowmik and Barin Kumar De <i>An Observed Report of Diurnal Variation of 6 kHz Sferics Recorded at Tripura (RSS-53)</i>
	TCSKM1030_93P: S. S. De, G. Pakira, A. Guha and S. N. Paul <i>Solutions in a Dusty Plasma having Drift Ions and Two-Temperature Electrons (RSS-59)</i>
	TCSKM1030_94P: D. Venkata Ratnam and A. D. Sarma <i>A 3-D Ionospheric Tomographic Model for GAGAN (ANP-19)</i>
	TCSKM1030_95P: Y. Ravi Kumar , D. Krishna Reddy and A. D. Sarma <i>A Statistical Model for Predicting Optimum Fade Margin in Communication Links. (ANP-28)</i>
	TCSKM1030_96P: S. S. Prasad and S. K. Sanyal <i>A Novel Direct Digital Synthesized FSK Modulator using Code Composer Studio for Application in Digital Communication: Extension to 4-FSK Modulation (CIS-11)</i>
	TCSKM1030_97P: Asif Siddiqui, Alak Banik, S. M. Srivastava and V. K. Garg <i>Design and Simulation of an On-board Receiver for GPS Aided Geo-Augmented Navigation System (MMT-19)</i>
	TCSKM1030_98P: A. Jafargholi, M. R. Mousavi, M. Emadi and M. M. Nayabi <i>High Accurate Multiple Target Detection for PCL Radar System (RSS-3)</i>
	TCSKM1030_99P: Avinav Dixit and D. K. Mehra <i>Adaptive Interference Suppression in DS-CDMA using multi stage Wiener Filtering (RSS-20)</i>
	TCSKM1030_100P: Partha Pratim Bhattacharya <i>A New Algorithm Based Soft handoff Algorithm for CDMA Cellular Systems (RSS-22)</i>
	TCSKM1030_101P: Amit Goyal and S. Chakravorty <i>Performance of Augmented Quality Based Power Control in Soft handover (RSS-38)</i>
10:30-13:15	TCSKM1030_102P: Girish B. S., Srivani K. S., Vinutha C., Wences Laus , Anish Roshi D. and Udaya Shankar N. <i>Design of a Hybrid FX Correlator For Radio Astronomy Applications (RSS-42)</i>
	TCSKM1030_103P: Kalpana Roy Sinha <i>Atmospheric Radioemission Initiated by High Energy Particles from Outer Space (RSS-44)</i>
10:30-13:15	TCSKM1030_104P: P. K. Pasricha, P. K. Banerjee, M. V. S. N. Prasad and S. K. Sarkar <i>Experimental Evaluation of Evaporation Duct Height over the Sea-Surface (RSS-45)</i>

	<p>TCSKM1030_105P: Kavita Sharma, Rupesh M. Das, R. S. Dabas and K. G. M. Pillai <i>Development of Multivariant Regression Ionospheric Model of foF2 for Delhi (RSS-46)</i></p>
	<p>TCSKM1030_106P: S. S. De, S. K. Adhikari, M. De, S. N. Paul and A. Guha <i>Studies on Non-Linear Heating in the Polar Ionosphere (RSS-51)</i></p>
	<p>TCSKM1030_107P: Karun Rawat, C. V. N. Rao and Punam Tyagi <i>Ku-Band Down Converter Using Broad band Planar 180 degree Hybrid (RSS-54)</i></p>
	<p>TCSKM1030_108P: Karun Rawat and C. V. N. Rao <i>Design of Reduced size power divider for Lower RF Band using Periodically Loaded slow wave Structure(RSS-55)</i></p>
	<p>TCSKM1030_109P: Amit Goyal and S. Chakravorty <i>A Fast Convergent Augmented Generalised Quality Based Power Control for Downlink CDMA systems (RSS-56)</i></p>
	<p>TCSKM1030_110P: Rajat Acharya, Neha Nagori, Nishkam Jain and Sanjay Srivastav <i>Kalman Filter based bias estimation of the GPS Dual Frequency Receivers and its performance. (EDM-15)</i></p>
	<p>TCSKM1030_111P: M. Devi, A. K. Barbara and D. J. Choudhury <i>A Portable Atmospheric Lidar System: Observation on Cloud formation, Precipitation and associated aerosol particles in the NE environment (OLT-31)</i></p>
13:15 – 13:30	PHOTO SESSION (GROUP PHOTO)
13:30	LUNCH BREAK
14:15 -16:00	Parallel Technical Sessions (Post-Lunch)
	HALL—L1 (J.N.BHAR HALL)
	EDM: Chairperson : Sudakshina Kundu
	Invited: TIJNB1415_1 Christian Enz and A.S. Roy <i>Generalized Source/ Drain Partitioning in MOSFET</i>

	<p>TCJNB1415_10 Santosh Kumar Vishvakarna, Vinit Agarwal Balwinder Raj, S. Dasgupta, and A.K.Saxena <i>Two Dimensional Analytical Modeling of Potential and Current-Voltage for Nano-Scale Symmetric Double Gate (SDG) MOSFET with Ultra Thin Body (EDM-59)</i></p> <p>TCJNB1415_20 Rishu Chaujar, Ravneet Kaur, Manoj Saxena, Mridula Gupta and R.S. Gupta <i>Exploration of the effect of Negative Junction Depth on Electrical Characteristics of Concave DMG MOSFET in Sub-50-Nanometer-Regime (EDM-61)</i></p> <p>TCJNB1415_30 Annada Prasad Sarab, Sajal Kumar Paul and S. Dasgupta <i>Design of a Novel Nanoscale Device Architecture to Reduce Leakage Current in Multi-Gate MOSFETs (EDM-67)</i></p> <p>TCJNB1415_40 Moumita Mukherjee and Nilratan Mazumder <i>Effect of Optical Illumination on 4H-SiC DDR IMPATT Diodes at 140 GHz.(EDM-40)</i></p> <p>TCJNB1415_50 Partha Sarkar, Abhijit Mallik and Chandan Kumar Sarkar <i>SUB 100 nm PSEUDO SOI n-MOSFET's for Mixed Signal Application.(EDM-88)</i></p> <p>TCJNB1415_60 S. .M. Rezaul Hasan <i>Pico-Siemen Operational Transconductance Buffers in Nanometric CMOS for Implantable Electronic and Communication Devices.(EDM-89)</i></p>
14:15 -16:00	<p>HALL – L2 (A.K.CHOUDHURI HALL)</p>
	<p>CNA: Chairperson : Nabanita Das</p>
	<p>Invited: TIAKC1415_1 U.B. Desai <i>Early Warning Systems for Landslide Prediction using Wireless Sensor Networks.</i></p> <p>Invited: TIAKC1415_2 Upamanyu Madhow : <i>On Scalability and Tracking in Sensor Networks.</i></p>

<p>14:15 -16:00</p>	<p>TCAKC1415_10 Shantanu Kumar, Sunil Kumar Singh, and Ratnajit Bhattacharjee <i>A Scheme for Efficient Handoffs in Heterogeneous Network Environment.(CNA-2)</i></p> <p>TCAKC1415_20 Avik Ray, Kanad Basu, Samir Biswas and M.K.Naskar <i>A Novel Distributed Algorithm for Topology Management in Mobile Ad-hoc Networks (CNA-25)</i></p> <p>TCAKC1415_30 Kuldeep Pandey <i>A Distributed IP-PBX for Ad Hoc Wireless Mesh Networks.(TEA-35)</i></p> <p>TCAKC1415_40 Lei Yu <i>A Novel High- Speed IP Packet Algorithm.(CNA-18)</i></p>
<p>14:15 -16:00</p>	<p style="text-align: center;">HALL –L3 (S.K.MITRA HALL)</p> <hr/> <p>RSS: Chairperson : Giovanni Perona</p> <hr/> <p>Invited: TISKM1415_1 Claude Oestges <i>Dual-Polarized MIMO Wireless Communications:Overview, Channel Modelling and System Design.</i></p> <p>Invited: TISKM1415_2 Daniel Vanhoenacker Janvier, Claude Oestges and Antonio Martellucci <i>Scintillation and Depolarization Models for Satellite Communications in 20-50 GHz band.</i></p>

	<p>TCSKM1415_10 Prerana Gupta and D. K. Mehra <i>Cyclic Prefix based Channel Estimation using Kalman Filter for Doubly Selective OFDM Systems.</i>(RSS-7)</p> <p>TCSKM1415_20 Debika Bhattacharyya and P.K.Banerjee <i>A Fuzzy Based Call Admission Control Algorithm for Providing Guaranteed QOS in Cellular Mobile Communication Systems.</i> (RSS-30)</p> <p>TCSKM1415_30 Poonam Singh, R. V. Raja Kumar and T. S. Lamba <i>A Novel Multiple Access Scheme for Mobile Communication Systems.</i>(RSS-43)</p> <p>TCSKM1415_40 K.Krishna Reddy <i>Application of Atmospheric Wind profiler Radars for Radio Communications.</i>(RSS-10)</p> <p>TCSKM1415_50 M.V.S.N. Prasad, K. Ratnamala, M..M. Gupta and S.K. Sarkar <i>Some Rural Communication Experimental Results and Associated Studies for Mobile Communication over Various Zones of India.</i>(ANP-21)</p>
14:15 -16:00	HALL – U1 (M.K.DASGUPTA HALL)
	ANP : Chairperson : D.R.Poddar
	<p>TCMDG1415_10 Mrinal Kanti Mandal and Subrata Sanyal <i>An Improved Design Approach of Harmonic Suppression for Microstrip Patch Antennas.</i>(ANP-9)</p> <p>TCMDG1415_20 Ashwani Kumar, A.D. Sarma and N. Ajith <i>A Compact GPS Patch Antenna for L5 Frequency.</i>(ANP-23)</p> <p>TCMDG1415_30 T. Fogarty, K. Soyajaudah and V. Armoogum <i>Signal Strength Variation Measurement of Digital Television Broadcasting for Summer Season in the North of Mauritius at UHF Bands.</i>(ANP-35)</p>

	<p>TCMDG1415_40 Nisha Gupta, Vibha Rani Gupta, Smit Garg, Priyanshu Agarwal and Shobhit Budhia <i>Experimental Investigation on Textile Microstrip Antennas for Wearable Applications.</i>(ANP-39)</p> <p>TCMDG1415_50 Sudipta Chattopadhyay, Manotosh Biswas, Jawad.Y. Siddiqui and Debatosh Guha <i>Computer Aided Design of a Microstrip Patch with Variable Air-Gap.</i>(ANP-46)</p> <p>TCMDG1415_60 Priyanka Mondal and Ajay Chakrabarty <i>Analysis of Longitudinal Slot Antennas in the Broadwall of Standard and Non-Standard Rectangular X of Mauritius at UHF Bands.</i>(ANP-14)</p> <p>TCMDG1415_70 Ramesh Chandra Gupta and S.P. Singh <i>Fresnel Field Pattern of Longitudinal Slot in Narrow Wall of Rectangular Waveguide.</i>(ANP-8)</p> <p>TCMDG1415_80 Gijo Augustin, Shynu S. V., P. Mohanan, C. K. Anandan and K. Vasudevan <i>Triangular Patch Loaded Monopole Antenna for Triple band Operation.</i>(ANP-32)</p> <p>TCMDG1415_90: Kaveh Moussakhani and Ayaz Ghorbani <i>Modified Broad-Band Transmission Line Model for Rectangular Patch Antennas.</i>(EDM-11)</p>
14:15 -16:00	<p style="text-align: center;">HALL – U2 (B.R.NAG HALL)</p> <p>OLT: Chairperson : Somnath Sarkar</p> <p>Invited: TIBRN1415_1 Shiva Kumar <i>Design Of Long Haul Fiber Optic Transmission Systems.</i></p> <p>TCBRN1415_10 Taraprasad Chattopadhyay and Anuj Kumar Saw <i>Optical Sideband Selection Filter Using Asymmetric Mach-Zehnder Interferometer.</i>(OLT-3)</p>

	<p>TCBRN1415_20 Gorachand Ghosh <i>Model for the Refractive Index and Thermo-Optic Coefficients of some Optical Liquids.(OLT- 9)</i></p> <p>TCBRN1415_30 M.R. Dutta Majumdar and Debasish Das <i>Full Spectrum Diffused and Beamed Solar Energy Application using Optical Fibre.(OLT-28)</i></p> <p>TCBRN1415_40 Mukul K. Das and N. R. Das <i>On the Responsivity of a Si(1-x)Ge(x)/Si RCE p-i-n Photodetector for Different Ge-compositions.(OLT-37)</i></p> <p>TCBRN1415_50 Prasenjit Roy Chowdhuy, S Gangopadhyay and S.N.Sarkar <i>Accurate Prediction of Effective Area of Graded Index Fiber by a Simple Technique.(OLT-51)</i></p> <p>TCBRN1415_60 Abhijit Biswas and P.K. Basu <i>Development of Equivalent Circuit of A Quantum Cascade Laser and SPICE Simulation of a Steady State and Dynamic Response.(OLT-52)</i></p>
16:00	TEA BREAK
	Parallel Technical Sessions (Post-Tea)
	HALL – L1 (J.N.BHAR HALL)
	MMT: Chairperson : M. S. Raju
16:15 -17:30	<p>TCJNB1615_10 Mrinal Kanti Mandal and Subrata Sanyal <i>A Novel Technique for Designing Sharp-rejection, Compact, Wide-band Bandpass Filters with Parallel-coupled Lines.(MMT-6)</i></p>

	<p>TCJNB1615_20 Amitabha Bhattacharya, Ansu Kapoor and Mayank Mehra <i>Detection of Embedded Water Pocket in Coal by Microwave.</i>(MMT-16)</p> <p>TCJNB1615_30 Karim Hamed, Al Freundorfer and Yahia Antar <i>A Ka-Band TE01d Mode Differential Dielectric Resonator Filter Implemented using SiGe Technology.</i> (MMT-20)</p> <p>TJNB1615_40 Sushanta K. Mandal <i>Analysis and Characterization of On-Chip Spiral Inductors on Silicon using Electromagnetic Simulator.</i> (MMT-25)</p> <p>TCJNB1615_50 J. Dhar, S. K. Garg, R. Singhal, R.K. Arora and S. S. Rana <i>Non-Linear Design,Package Analysis and Thermal Design of C-Band CW Power Amplifier.</i>(CIS-14)</p> <p>TCJNB1615_60 Hemanta Kumar Sarmah, Minakshi Devi and A. K. Barbara <i>A Low Cost Optical Distrometer: Association of Drop Sizes and Rain Attenuation at cm Range.</i>(MMT-26)</p>
16:15 -17:45	HALL – L2 (A.K.CHOUDHURY HALL)
	<p>CNA: Chairperson : P.P.Das</p> <p>Invited: TIAKC1615_1 Kalyan Basu, Sumantra R Kundu and Sourav Paul <i>Cross Layer Research Opportunities for Video Streaming in Wireless Networks</i></p> <p>Invited: TIAKC1615_2 Basabi Chakraborty</p>

	<p>TCAKC1615_10 Animesh Trivedi, Rishi Kapoor, Rajan Arora, Sudip Sanyal and Sugata Sanyal <i>RISM - Reputation Based Intrusion Detection System for Mobile Adhoc Networks.(CNA-17)</i></p> <p>TCAKC1615_20 Sumit Ghosh <i>The Impact of Source Traffic Distribution on Quality of Service (QoS) in ATM Networks.(CNA-34)</i></p>
16:15 -17:45	HALL – L3 (S.K.MITRA HALL)
	RSS: Chairperson : K. Bandyopadhyay
	<p>Invited: TISKM1615_1 Giovanni Perona, R Notarpietro and M Gabella <i>GPS Radio Occultation On-Board the OCEANSAT-2 Mission: an Indian (ISRO)-Italian (ASI) Collaboration.</i></p> <p>Invited: TISKM1615_2 Riccardo Notarpietro <i>Experimental Activities for the Validation of the Italian Radio Occultation Payload (ROSA) of the Indian OCEANSAT-2 Mission</i></p>
	<p>TCSKM1615_10 Aditi Das, Debrup Hui and Ashish DasGupta <i>Ionospheric Precursors of some Recent Strong Earthquakes fromGAGAN Observations (RSS-61)c</i></p> <p>TCSKM1615_20 P. Banerjee and Suman <i>A Study on the Factors Affecting the Accuracy Of GPS Common View Mode for Time Transfer (RSS-33)</i></p>

	HALL – U1 (M.K.DASGUPTA HALL)
	CIS: Chairperson : M.H.Engineer
	Invited: TIMDG1615_1 Dhamin Al Khalili, Hisham El Masry, Adnan Kabbani and Sarah Xue <i>Virtual-Cell Library Based Paradigm in ASICs Yield Custom Performance.</i>
	TCMDG1615_10 Sanjoy Kr. Dey, Sounak Roy and Swapna Banerjee <i>A 10 -bit 2.5GS/s Low-Power BiCMOS THA for High Performance ADC.(CIS-16)</i>
	TCMDG1615_20 Soumya Pandit, Sumit Kumar Bhattacharya, Chittaranjan Mandal and Amit Patra <i>A Hybrid Search Procedure for System-Level Analog Design Space Exploration used in High Level Synthesis of Analog Systems.(CIS-23)</i>
	TCMDG1615_30 S.K. Roychowdhury, S. Das,T. Islam and H. Saha <i>ASIC design of an ANN for theTemperature and Drift compensation of Humidity Sensor.(CIS-28)</i>
	TCMDG1615_40 Santi P. Maity and Pabitra K. Ray <i>De-noising of Digital Images using Wavelet Transform.(EDM-68)</i>
	TCMDG1615_50 S. M. Rezaul Hasan <i>A Novel Offset Compensated Sub-1V 10μW CMOS Sampled-data Comparator in 0.13μm CMOS Technology. (CIS-10)</i>
16:15 -17:45	
	HALL – U2 (B.R.NAG HALL)
	EDM: Chairperson : C.K.Sarkar
	Invited: TIBRN1615_1 S.S. Mahato, T. K. Maiti, R. Arora, A R Saha, S. K. Sarkar and C. K. Maiti <i>Strain Engineering for Future CMOS Technologies.</i>

<p>16:15 -17:45</p>	<p>TCBRN1615_10 M. K. Bera, C. Mahata, C. K. Maiti, S. Bhattacharya, A. K. Chakraborty, K. S. Coleman and S. Saha <i>Rapid Thermal Oxidation of strained-Si/SiGe Heterolayers.</i> (EDM-72)</p> <p>TCBRN1615_20 A. Mondal, T.D. Das and S. Dhar <i>Characteristics of Dilute GaSbN Layers, Grown By Liquid Phase Epitaxy.</i>(EDM-84)</p> <p>TCBRN1615_30 Bratati Mukhopadhyay and P. K. Basu <i>Dependence of Free Carrier Absorption in n-Si on Carrier Density at Telecommunication Wavelengths</i> (EDM-85)</p> <p>TCBRN1615_40 D. Panda, K. Das, R.K. Singha,S. Das, A. Dhar and S.K. Ray <i>Growth of Nickel Germanides on MBE Grown Ge films for High Mobility Devices.</i>(EDM-48)</p> <p>TCBRN1615_50 J. Kanungo, P. Basu, S. Majhi, C. Roychoudhuri, S. K. Dutta, S. Banerjee, U Gangopadhyay and H. Saha <i>Fabrication and Characterization of Nanocrystalline Silicon for Sensing Applications.</i>(EDM-92)</p>
<p>18:30</p>	<p style="text-align: center;">CULTURAL PROGRAM AND DINNER</p>

09:00 –10:30	<p align="center">PLENARY TALK (1) (A.K.SEN HALL)</p> <p>Chairperson : Dhamin Al Khalili</p> <p>WPAKS0900_1: Y.M.M. Antar: <i>New Developments in Antennas for Wireless and other Applications.</i></p> <p>WPAKS0900_2 Paul Dan Cristea <i>Genomic Signal Processing and Analysis Application in the study of Pathogen Variability</i></p>
10:30	<p align="center">TEA</p>
10:45 -12:15	<p align="center">Parallel Technical Sessions (<i>Pre-Lunch-1</i>)</p> <p align="center">HALL – L1 (J.N.BHAR HALL)</p> <p>EDM: Chairperson : Michitaka Kameyama</p> <p>Invited: WIJNB1045_1 Juan Andres De Agiapito, Francisco J. Franco and Yi Zong <i>DAC's and ADC's under Low Neutron and Gamma Radiation.</i></p> <p>WCJNB1045_10 S. C. Bera, R.V.Singh and V.K.Garg <i>Inherent Temperature-compensating Behavior of Junction Diodes.(EDM-23)</i></p> <p>WCJNB1045_20 Deepender Kant,O.S.Lamba,S.C.Nagru,L.M.Joshi,K.Dixit <i>Thermal Analysis for Collector of High Power S-Band Klystron.(EDM-25)</i></p>

	<p>WCJNB1045_30 Swagata Bhattacharjee and Abhijit Biswas <i>Influence of Structural Dimensions, Channel Doping and Gate Materials on the Threshold Voltage of Double Gate MOSFETs in the Nanometer Regime (EDM-86)</i></p> <p>WCJNB1045_40 R. Sachdeva, V.V.P. Singh <i>Electromagnetic-Thermal-Stress Simulation and Analysis of a High Power Microwave Window using ANSYS-Multiphysics. (EDM-56)</i></p> <p>WCJNB1045_50 R. K. Sharma, S. M. Sharma, A. R. Choudhury, R. K. Gupta and S. N. Joshi <i>Design and Evaluation of Electron Guns for LIGA Fabricated W-Band Devices. (EDM-47)</i></p>
10:45 -12:15	HALL -L2 (A.K.CHOUDHURY HALL)
	TEA: Chairperson : Tamal Sen
	<p>WCAKC1045_10 S Mitra,B. Baigari and D. Mazumdar <i>Computing Asymmetric Biometric of frontal Human Face Image using Phase Congruency of Fourier Series (TEA-22).</i></p> <p>WCAKC1045_20 Sumitra Mukhopadhyay and Ajit K. Mandal <i>The Effect of Membership Functions and Accommodation Boundary on the Optimal Rule Extraction in System Modeling. (TEA-26)</i></p> <p>WCAKC1045_30 Mainak Mukhopadhyay, Ajay Chakraborty, Sushmita Ghosh and Moutusi Mandal <i>Imaging of Buried Objects, Water Layer and Voids within the Earth Surface & Underground Coal Mines using Electromagnetic wave. (TEA-29)</i></p>

	<p>WCAK1045_40 Utpal Bhattacharjee and Chandan Saoli <i>A Noise Robust Feature Extractor for Automatic Speech Recognition System.</i>(TEA-52)</p> <p>WCAK1045_50 Rajarshi Mahapatra, Anindya Sundar Dhar and Debasish Datta <i>Spectral Efficiency of Link-Adaptive Wireless Communication Systems using Alamouti Transit Diversity Scheme.</i> (TEA-32)</p> <p>WCAK1045_60 Muhammad Taimoor Khan , Kashif Zia, Nadeem Daudpota, S.A. Hussain and Najma Taimoor <i>Middleware for Context-Aware Pervasive Environments:A Layered Architecture.</i> (TEA-45)</p> <p>WCAK1045_70 Sanjay Kumar, Navin Kumar Yadav and Ajay Kumar Sharma <i>Improved Conjugate ICI Self Cancellation Scheme for OFDM Systems.</i> (TEA-20)</p>
10:45 -12:15	<p style="text-align: center;">HALL –L3 (S.K.MITRA HALL)</p> <p>ADC: Chairperson : Basabi Chakroborty</p> <hr/> <p>Invited: WISKM1045_1 Sunil R. Das, Alaf Hossain, Satyendra Biswas and Emil M. Petriu. <i>Aliasing Free Compaction Revisited.</i></p> <hr/> <p>WCSKM1045_10 Goutam Sarker <i>A Heuristic Based Hybrid Clustering for Natural Classification.</i> (ADC-4)</p> <p>WCSKM1045_20 Asok Bandyopadhyay <i>On-line Bangla Handwriting Recognition System, an Approach.</i> (ADC-6)</p>

	<p>WCSKM1045_30 Anirban Mukhopadhyay, Ratan Roy, Ujjwal Maulik, Sanghamitra Bandyopadhyay <i>Multiobjective Genetic Fuzzy Clustering of Microarray Data. (ADC-11)</i></p> <p>WCSKM1045_40 Santanu K. Maiti,, and S. N. Karmakar <i>Parallel Computing of Mathematica Programs Linking with External Programs and Running Mathematica Programs in Background. (ADC-8)</i></p>
	HALL – U1 (M.K.DASGUPTA HALL)
10:45 -12:15	<p>CIS: Chairperson : Asoke K Nandi</p> <p>Invited: WIMDG1045_1 R N Madan <i>Sensors,Information Fusion and Reality</i></p> <p>WCMDG1045_10 Kumar Yelamarthi and Sashank Kakulavarapu <i>A Signed Multiplier using Baugh-Wooley and On-The-Fly Conversion Algorithms. (CIS-12)</i></p> <p>WCMDG1045_20 Kailash Chandra Ray and Anindya Sundar Dhar <i>Cordic Based VLSI Architecture for Implementing Hanning and Hamming Windowing for Real Time Spectral Analysis (CIS-18)</i></p> <p>WCMDG1045_30 Sumit Ghosh <i>A New Principle for Modeling and Simulation of Mixed-Signal Electronic Designs. (CIS-24)</i></p> <p>WCMDG1045_40 Arindam Sanyal, Snehasish Das, P.Venkateswaran, S.K.Sanyal and R.Nandi <i>An Efficient FPGA Implementation of an Incremental Encoder Reader Circuit with Error Detection and Correction(CIS-8)</i></p> <p>WCMDG1045_50 Anil V. Nandi and R.M.Banakar <i>Efficient Memory Sorting SPIHT Image Coder/ Decoder(CIS-25).</i></p>

	HALL – U2 (B.R.NAG HALL)
10:45 -12:15	<p>OLT: Chairperson : Utpal Das</p> <p>Invited: WIBRN1045_1 Jayanta Sarma <i>Surfing the Surface Plasmon Waves</i></p> <p>WCBRN1045_10 Sanjeev Kumar Raghuwanshi and Srinivas Talabattula <i>FDTD Method to Solve Non Linear Schrodinger Equation: A Solitons Formation (OLT- 5)</i></p> <p>WCBRN1045_20 M.Ganesh Madhan and M.R.Rajesh Kumar <i>A Comprehensive VHDL - AMS Model for a VCSEL Based Fiber Optic Transmitter(OLT-16)</i></p> <p>WCBRN1045_30 Prasant Kumar Sahu, S. Mahapatra, Sanjay Kumar C. Gowre and J.C. Biswas <i>Design and Simulation of Programmable Delay using a Fibre Bragg Grating (FBG) Array for High-Speed Optical Networks and an Error Model for a CFBG based Optical Device.(OLT-23)</i></p> <p>WCBRN1045_40 M.K. Sheeja, P. T. Ajith Kumar and S.Nair. Achuthsankar <i>Data Encryption and Secure Transfer in Compact Discs using Holographic Variable Key (OLT-38)</i></p> <p>WCBRN1045_50 C.D.Logeswary and Prita Nair <i>Reconfigurable Wavelength Selective Filters for Dynamic Wavelength Provisioning in CWDM Systems (OLT-45)</i></p>
12:15	SHORT BREAK
12:30 – 13:30	Parallel Technical Sessions (Pre-Lunch)
	J N BHAR HALL
	<p>EDM: Chairperson : Sunanda Dhar</p> <p>WCJNB1230_10 Subhadeep Kal,Alvise Bagolini,Benno Margesin, and Mario Zen. <i>Electrical Properties of Electroplated Gold Films for Microsystem Application (EDM-10)</i></p>

	<p>WCJNB1230_20 P. Chakrabarti and P. K. Maurya. <i>Analytical Model of an InAs_{0.15}Sb_{0.85} Single Heterojunction Long-Wavelength Infrared (LWIR) Photodetector.</i>(EDM-17)</p> <p>WCJNB1230_30 Subindu Kumar,Dipankar Biswas,Tapas Das <i>Effects of Size Distribution on the Absorption Spectra of III-V Semiconductor Quantum Dots</i> (EDM-35)</p> <p>WCJNB1230_40 D. Panda,K. Das,A. Dhar and S.K. Ray <i>Fabrication of Co_xNi_{1-x}Si₂/n-Si junction Schottky Diode for ULSI Device Applications</i> (EDM-45)</p> <p>WCJNB1230_50 Tapas Das, Dipankar Biswas, Subindu Kumar <i>Effects of inter diffusion on band Offset Ratios of Ternary and Quarternary Semiconductor Nano Structures</i> (EDM-82)</p>
12:30 – 13:30	<p style="text-align: center;">HALL-L2 (A.K.CHOUDHURY HALL)</p> <p>TEA: Chairperson : S. Sur Koley</p> <p>WCAKC1230_10 K Biswas,S. Das and S. Kal <i>Simulation and Analysis of a Triple-layered MEMS Capacitive Pressure Sensor with High Sensitivity</i> (TEA-9)</p> <p>WCAKC1230_20 S S.Nath,M.Paul,B.Choudhury,D Chakdar and G Gope <i>Optical Absorption and Luminescence Study of Ion Irradiated ZnO Quantum Dots</i> (TEA-13)</p> <p>WCAKC1230_30 T. K. Maiti, S.S. Mahato, S.K. Sarkar , C.K. Maiti and A. R. Saha <i>A Novel Technique to Reduce Self-heating in Strained-Si MOSFETs</i> (TEA-24)</p>

	<p>WCAKC1230_40 R.Borgohain,S Sharma and J. C.Dutta <i>Modelling Cylindrical Nano Size ISFET for Bio Sensor Application</i>(TEA-10)</p> <p>WCAKC1230_50 N. Z. Azeemi <i>Optimizing On-chip Cache Performance for Low Energy</i>(TEA-58)</p>
12:30 – 13:30	HALL-L3 (S.K.MITRA HALL)
	RSS: Chairperson : Sutapa Chowdhury
	<p>Invited: WISKM1230_1 Peter Jung, Admir Burnic,Guido H Bruck,,Amr Eltaher, Arjang Hessamiam-Alinejad, Tobias Scholand, Achim Seebens, Christoph Spiegel, Alexander Vießmann and Andreas Waadt <i>Cognitive Radio Terminal Concepts</i></p>
	<p>WCSKM1230_10 Nizar Zorba and Ana Isabel Perez Neira <i>Robust Multiuser Opportunistic Beamforming</i> (RSS-31)</p> <p>WCSKM1230_20 Rashmi Rekha Borah ,K. Bhuyan and P. K. Bhuyan <i>Grid Based Empirical Model to Predict Total Electron Content over India.</i> (RSS-13)</p> <p>WCSKM1230_30 Rupesh M Das, Kavita Sharma,R.S. Dabas and K.G.M Pillai <i>Ionospheric Perturbations Observed over Delhi before and after Seismic Activities having Magnitude greater than 6</i> (RSS-47)</p> <p>WCSKM1230_40 S.S.De, B.K. Dey ,S.K. Adhikari ,B. Bandyopadhyay and A. Guha <i>Studies on Sferics over Kolkata in Relation to Rainy and Winter Season</i> (RSS-52)</p>
12:30– 13:30	HALL-U1(M.K.DASGUPTA HALL)
	ANP : Chairperson : Claude Oestges
	<p>WCMDG1230_10 Kiyotoshi Yasumoto,Hongting Jia and Bhaskar Gupta <i>Radiation from a Dipole Source Located in Photonic Crystals</i> (MMT-17)</p>

	<p>WCMDG1230_20 T. Balakrishnan, A.K. Singh and Bhaskar Gupta <i>Development of Planar IFF Antenna Array for Airborne Application. (ANP-2)</i></p> <p>WCMDG1230_30 Prabhudutta Pradhan, Balamati Choudhury, Trilochan Panigrahi and Amalendu Patnaik <i>Simulation and Characterization of a Multifunction Antenna. (ANP-17)</i></p> <p>WCMDG1230_40 Mainak Mukhopadhyay, Ajay Chakroborty, Binay Kumar Sarkar, Atanu Roy and Anindyo Kundu <i>Augmentation of Anti-Jam GPS System on Moving Platform using Adaptive Array Antenna: a Low Side Lobe (ANP-33)</i></p> <p>WCMDG1230_50 Samik Chakraborty, Bhaskar Gupta and D.R. Poddar <i>Ultra Wide Band Spiral Dielectric Antenna for Polarization Independent Omni Directional Application. (ANP-29)</i></p> <p>WCMDG1230_60 Amir Jafargholi and Mohammad Reza Mousavi <i>Mutual Coupling and Ground Effects Compensation in VHF-LB Phased Array Antenna. (ANP-3)</i></p>
12:30 – 13:30	HALL-U2 (B.R.NAG HALL)
	OLT: Chairperson : Asit Dutta
	<p>WCBRN1230_10 S. Chandra,R Gangopadhyay and A.Vishnu Vardhanan <i>Compensation of Chromatic Dispersion Induced Power Fading using Optimized Chirped Fiber Bragg Grating for A Millimeter-Wave Radio-Over-Fiber System (OLT-34)</i></p> <p>WCBRN1230_20 Sanjoy Dey and Satya Prasad Majumder <i>Impact of Grating Length and Induced Index Change of a FBG on the BER Performance of a FBG-based Bi-directional Optical Cross-connect (OLT-33)</i></p>

	<p>WCBRN1230_30 Tetsuya Mizumoto,Jaekuk Seo,Kazuhiko Tamura and Yoichi Akano <i>All-Optical Switching in a GaInAsP DFB waveguide (OLT-27)</i></p> <p>WCBRN1230_40 N. R. Das and Alakananda Mitra <i>A New Approach for Modeling P-I-N Photodetector (OLT-42)</i></p> <p>WCBRN1230_50 B.M. Azizur Rahaman , A.K.M Saiful Kabir, N. Kejalakshmy, I. Wijeratne, M.Rajaraman and K.T.V. Grattan <i>Modal Solutions of Photonic Crystal Fibres by Using a Full Vectorial Finite Element Method (OLT-44)</i></p>
13:30	<p>LUNCH BREAK</p> <p>INDUSTRIAL SESSION</p>
	<p>Chairperson : A. P. Mitra</p> <p>HALL-L12 (A.K.SEN HALL)</p>
14:15 – 15:55	<p>WSAKS1415_1 Samar Saha (Synopsis): <i>Design Considerations for Sub-90 nm Flash Memory Cells</i></p> <p>WSAKS1415_2 Manjul Bhushan (IBM): <i>Aspects of Variability in Semiconductor Devices, Circuits, and Systems</i></p> <p>WSAKS1415_3 Devesh Kumar Mathur (Honeywell): <i>Materials that Impact Devices and Speed – packaging</i></p> <p>WSAKS1415_4 Subir Saha (Motorola): <i>The Challenge of Delivering Seamless Mobility</i></p>
15:55	<p>TEA</p>
16:15	<p>VALEDICTORY FUNCTION AND AWARD DISTRIBUTION</p>