

The 9<sup>th</sup> Annual CONFERENCE ATMS (INDIA) ATMS-2016



VENUE: Grand Mercure GOA Shrem, Resort, GOA, INDIA

DATE: 2<sup>th</sup> and 3<sup>th</sup> February, 2016

P R O G R A M E

Inaugural Session

08:30	09:25	Registration of Delegates	
09:25	9:30	Welcoming dignitaries on dais with bouquet (7 persons) (ATMS President, Guest of Honours, Chief Guest, Keynote Address)	
09:30	09:35	Offering of bouquet	
09:35	09:40	Lighting of Lamp by Chief Guest accompanied by Distinguished Dignitary's	
09:40	09:45	The overview of the conference	Prof. OPN Calla
09:45	09:55	Secretarial Address	Secretary
09:55	10:05	The Guest of honour Address.	Prof. Shri Hari Rao
10:05	10:15	The Chief Guest's address	Mr. C P Suresh
10:15	10:45	Keynote Address	Prof. C Balanis
10:45	10:50	Releasing of CD of the Proceedings	
10:50	11:00	Memento Presentation	
11:00	11:05	Vote of Thanks	Treasurer
11:05	11:30	Inauguration of Exhibition & High Tea	

Technical Conference Sessions

Day : 01

Session - I

11:30 - 13:00	Radome, RCS characterization & its Latest Range Chaired By : Dr. S PAL		
11:30 - 12:00	Invited Talk : An Introduction to ORANGE by Mr Rakesh Singh, RCI, HYD.		
12:00	12:10	Study on SMRBC and Radial PML Boundary Conditions in FVTD Solver for RCS Computations	Bhagirath Choudhary, Abhinav Bharat, M L Meena, H Sharma, S Sunil Kumar
12:10	12:20	A Novel Approach for Indoor Dynamic RCS Measurement of Chaff Cloud and its Validation by Simulation	Verandra Kumar, Ankush Soni, Ajit Kumar Singh, Dr. Prashant Vasistha, Ravindra Kumar
12:20	12:30	Investigation of Antenna RCS into Structural and Antenna mode components	ML Meena, Abhinav Bharat, Bhagirath Choudhary, Shyam Rankawat, Hemant Sharma, S Sunil Kumar, Anjali Bhatia

12:30	12:40	Effect of Multipath on RCS of Chaff Cloud in Marine Environment	Verandra Kumar, Ankush Soni, Ajit Kumar Singh, Vivek Bajpai, Dr. Prashant Vasistha and Ravindra Kumar
12:40	12:50	Broadband Radome Analysis using Baseline Interferometry	Anil Chepala, GVRK Rao, Dr. V. Sarala and B.R.K.Reddy
12:50	13:00	Radome Tip Optimisation to Increase Transmission Efficiency at Boresight	Joita Mukherjee, D.Chandrasekhar, G.V.R.K. Rao
13:00	13:10	Radar Cross-Section of a Fighter Aircraft at Broadband Frequencies	Vijay Kumar Sutrar

13:10 – 14:00 Lunch

#### SESSION-2

14:00 – :00	Techniques of Antenna Measurements Chaired By: Mr. Zhong Chen	
14:00	14:30	INVITED TALK : Latest development on Radome characterization by Philippe Garreau, MVG.
14:30	14:40	Investigation of First and Higher Order Probe Correction Accuracy and Limitations in Spherical NF Antenna Measurements
		L. J. Foged, F. Saccardi, A. Giacomini, dei Castelli Romani
14:40	14:50	Lensed Conical Antenna for Free Space Microwave Measurements
		R K Jani, V S Chauhan, Vandana Sharma, Shyam Rankawat and Anjali Bhatia
14:50	15:00	Advanced NF/FF Transformation for Spherical Near Field Downsampled Offset Measurements
		L. J. Foged, F. Saccardi, F. Mioc, Pomezia
15:00	15:10	Comparative Study of Surface Impedance Determination of Thin Resistive Coatings Using Free Space & Waveguide Techniques
		Virendra Singh Chauhan, Raj Kumar Jani, Anuj Shukla, AVVK Lingewara Rao, Anjali Bhatia
15:10	15:20	Comparison between Modal and Time Filtering Echo Suppression Techniques applied to Single Cut Near Field Measurements
		Manuel José López Morales, Manuel Sierra, F. Saccardi, L. J. Foged

15:20 to 15:40 Tea and Coffee Break

#### SESSION-3

15:40 to 17:10	Waveguide Array Antenna and Special Purpose Antennas. Chaired By: Mr. Carla Rizo	
15:40	15:50	Bandwidth Enhancement In Non Standard Single Ridge Slotted Waveguide Antenna With Low SLL For X-Band Phased Array Radar
		Akhil Gupta . Bal Mukund Jha . Sanjay Choube
15:50	16:00	Development and design of Donut Shape monopole Printed UWB antenna
		Pankaj S. Ashtankar
16:00	16:10	Design and Manufacture of X-Band Waveguide Slot Array Antenna using the Probe Feeding Structure
		Gyu-Yeon Kim, Ji-Hoon Jeong, In-Hee Han, Dong-Seok Kim
16:10	16:20	A Dual Mode Feed offers Reduced Cross-pol in Off-set Reflector Antenna over Wide Bandwidth
		K. B. Parikh , Balvant Makwana, S. B. Sharma
16:20	16:30	Dual Segment Half Split Cylindrical Sector Dielectric Resonator Antenna for X-Band Applications
		Pinku Ranjan, Ravi Kumar Gangwar
16:30	16:40	Reduction of Mutual Coupling in Antenna Arrays using Periodic Structures
		Prakash Kuravatt, T. S. Rukmini, Madhu A. R

16:40	16:50	Experimental Results of Structurally Modified High Power Ultra Broadband Phased Array Antenna for Extending the Operating Frequency Range and Improving the VSWR	Ch Viswanadham, Prof. P Mallikrajuna Rao
16:50	17:00	LabVIEW Virtual instruments for design Parameterization of linear broad wall slotted W/G array in X-BAND	Balmukund Jha Awanish Kumar Singh Sreemoyee Mukherjee Akhil Gupta
17:00	17:10	Implementation of Dolph-Tchebyscheff method for side lobe reduction of Linear Broad Side Array	Arvind M. padole , S.M. Kharad , Dr. P.S.Ashtankar
17:00	17:30	Poster Session_1	
17:30 to 19:00		There will be a special session of vendor presentation followed by Musical Program and Networking Dinner	

Day: 02

SESSION-4

9:30 to 11:00		Special session for Student Papers Chaired By: Prof. Mahadevan	
9:30	9:40	Design of a Low Profile Double Finger-Ring UWB Monopole Antenna for BAN	Krutika P. Mahore, Dr. P.S. Ashtankar
9:40	9:50	Performance Of Various Microstrip Feed Fork Shape Antennas For Wireless Applications	Priyanka Meshram <sup>1</sup> Dr. P.S. Ashtankar
9:50	10:00	A Compact Triple-Band Metamaterial Antenna Based on Dual Split-Complementary Split Ring Resonator	Prashant R. T, Vani R.Mand Hunagund P.V
10:00	10:10	A Novel Microstrip Patch Array For Dual Band Bi-Directional Wireless Communications	Jacob Abraham, Thomaskutty Mathew
10:10	10:20	Design of Dual band circular patch antenna loaded with circular mushroom unit cell for Circular Polarization	Suman Nelaturi and N.V.S.N. Sarma
10:20	10:30	Improved Design of Profiled Ring-loaded Slot Mode Converter offers Enhanced Bandwidth	D. D. Goti, M. H. Jesani, K. B. Parikh
10:30	10:40	Wearable Button Antenna For Body Area Network Application	B.Manimegalai, N.Kumutha, S.SarojaMeenakshi,J.K.VidhyaLakshmi
10:40	10:50	Design and Simulation of Flat Scalar Ring Feed Horn Antenna using HFSS for Wide Band Ground Station Receiver Applications	P.Nandakumar <sup>1</sup> , M. Durga Rao <sup>2</sup>
10:50	11:00	Antenna loaded with Split Ring Resonator for Wireless Communication using MIMO Technique	Bhaghyashree Sharma , Rajeev Mathur, Anurag Paliwal, Vijendra Mourya.

11:00 to 11:30 High Tea and coffee

SESSION-5

11:30 – 13:00		Challenges of Unfurlable Antenna & other space worthy Antennas Chaired By: Mr. Philippe Garreau	
11:30	12:00	INVITED TALK: Unfurlable Antenna - ISRO's largest space reflector by Mr. N SMurali, ISAC, ISRO	
12:00	12:10	Qualification Of SAR Antenna Bonding For Space Borne Applications	Prashant Hedau, Dhaval Vartak, KB Vyas, R.M. Parmar

12:10	12:20	Alignment of Spacecraft Antenna using specialized Universal Modular fixture	Amit Agarwal, N H Kinariwala, A C. Mathur
12:20	12:30	SAR Antenna Integration & Deployment tests – A novel approach	M. Venkata Ramana, S.Ravindran, M.R.Thyagaraj
12:30	12:40	Use of Equivalent Current Technique as Advanced Tool for the Analysis of Coupling Phenomena between Satellite Antennas	L. Salghetti Drioli, L. J. Foged, F. Saccardi, L. Scialacqua
12:40	12:50	Dual band, Dual Polarized Frequency Reconfigurable Antenna for SATCOM Application	P.Manikandan, P.Sivakumar, B.Manimegalai, C.Swedheetha
12:50	13:00	Design of CPW fed Antenna for Folded Type Antenna for Biomedical Applications	S.Ashok Kumar, T. Shanmuganatham and Yazhini, Dr. RR & Dr. SR
13:00	13:10	A Process for the Design, Development and Qualification of Omni Antennae for Indigenous UAV System	Diptiman Biswas
13:10	13:20	On the Probe Pattern Correction in Spherical Near-Field Antenna Measurements	S. Pivnenko, J.L. Besada, A. Ruiz, C. Rizzo
13:20	13:30	Wideband Dual-Polarized Conjugate Matched Feed for Cross-Polarization Cancellation in Compact Ranges	L. J. Foged, A. Giacomini, A. Riccardi

13:30 to 14:15 Lunch

#### SESSION-6

14:15 to 16:05		Lightweight Antennas & Array Elements Chaired By: Prof. NVSN Sarma	
14:15	14:25	A Compact printed Disc monopole Antenna for UWB Application with Band-Notched Characteristics	Boya Satyanarayana, S. N. Mulgi, P. V. Hunagund
14:25	14:35	Dual Feed Shorted Triangular Patch Antenna at X-Band	Satyajit Chakrabarti
14:35	14:45	Monopulse IFF Antenna with Integrated Feed Distribution Network	Faiz Ahmed Siddiqui, Ajay Kumar Sharma
14:45	14:55	An ANN-Based Synthesis Model of Wide-band Microstrip-Line-Fed Antenna with Defected Ground Structure	Rakesh kumar Maurya
14:55	15:05	Efficient Integrable Parallel Metal plated Ultra Wide Band Antenna	Shilpa Kharche, G S Reddy, Rajiv Kumar Gupta, Jayanta Mukherjee
15:05	15:15	Symmetric C-shaped Slot loaded Rectangular Microstrip patch antenna	Dinesh B. Ganure, S. L. Mallikarjun, P. M. Hadalgi and P. V. Hunagund
15:15	15:25	Waveguide Filters Using Frequency Selective Elements For Band Pass Applications	A.Renuka & G.V.R.K.Rao
15:25	15:35	ACS-Fed M-Shaped Monopole Antenna for C and X-Band Applications	Dr.T.SHANMUGANANTHAM
15:35	15:45	Design And Implementation Of Textile Antenna For Wlan And Wban Application	Dr.Mrs.S. Raju· Roshni S Nair
15:45	15:55	Quad-Band Dual-Polarized Cylindrical Dielectric Resonator Antenna for Wireless Applications	Anand Sharma Ravi Kumar Gangwar
15:55 to 16:15 Tea and coffee break			
16:15 to 17:00 Poster Session _2			
Valedictory Session		CHAired BY PROF. OPN CALLA.	

17:00	17:30	Where to Go from here "The Road map of ATMS"
17:30	17:45	Best Paper Awards, Best poster Award and Best student paper award (Group photo)