

7th IEEE Indian Antenna Week 2016

Workshop on Advanced Antenna Technology

Organized by

Thiagarajar College of Engineering, Madurai

in association with

**IEEE AP-S Madras Chapter and IEEE AP/MTT Kolkata Chapter
(June 6- 10, 2016)**

SCHEDULE

Venue: Heritage, Madurai

Day 1: June 6, 2016 (Monday)	
03:00pm-05:00pm	Registration
05:00pm -06:00pm	Inauguration
06:00pm- 06:30pm	Tea break
06:30pm -07:30pm	Key Note Address: Title: "Phased Arrays and Reflector Antennas for 21st Century Satellite Communications" Dr. Sudhakar Rao, <i>Technical Fellow at Northrop Grumman Aerospace Systems, Redondo Beach, CA, USA.</i>
07:30pm -08:00pm	Open Forum - I: Title: "What is there in IAW 2016 For Participants" Dr. Debatosh Guha, <i>Professor, Institute of Radio Physics and Electronics, University of Calcutta &</i> Dr. V.Abhaikumar, <i>Professor and Principal, Thiagarajar College of Engineering (TCE), Madurai</i>
08:00pm-09:00pm	Dinner
Day 2: June 7, 2016 (Tuesday)	
09:00am-09:45am	Tutorial on "On Modeling of Planar Goubau Line" Dr. Ramesh Garg, <i>Dean (FAA), Indian Institute of Technology Ropar</i>
09:45am-10:45am	Key note address Title: "Introduction to 5G Communications and the Full-Dimension MIMO Antennas for 5G Smartphones" Dr. Kin Lu Wong, <i>Thomson Reuters Highly Cited Researcher, Sun Yat-sen Chair Professor, EE Department, National Sun Yat-sen University, Kaohsiung, Taiwan</i>
10.45am-11:00am	Tea break

11:00am-11:30am	<p>Invited Talk on “Design of Antenna Elements for SATCOM applications” Dr. S.B.Sharma, Executive President, Indus Institute of Tech.& Engg, Ahmedabad</p>
11:30am-12:00noon	<p>Invited talk on “Trends and Techniques in Broadband Antennas Design & Challenges” Dr.M.Balachary, Scientist G, DLRL, Hyderabad</p>
12:00noon-12:20pm	<p>Presentation by Keysight Technologies</p>
12.20pm-12.40pm	<p>Presentation on “Modeling of antennas with CST MW studio” by Computer Simulation Technology India Pvt. Ltd</p>
12:40pm–01:00pm	<p>Presentation by Measurement Solutions Pvt. Ltd.</p>
01:00pm- 02:00pm	<p>Lunch</p>
02:00pm-02:45pm	<p>Invited talk on “Design of Compact Phase Shifters for Phased Array Feeds” Dr. Bhaskar Gupta, Professor, Jadavpur University, Kolkata</p>
02:45pm- 04:00pm	<p>Research Paper Presentation - Session I Chair Person: Dr. Kin Lu Wong, Professor, EE Department, National Sun Yat-sen University, Kaohsiung, Taiwan Juries: Dr. Arokiaswami Alphones, Professor, Nanyang Technological University, Singapore Dr. Sudhakar Rao, Technical Fellow at Northrop Grumman Aerospace Systems, Redondo Beach, CA, USA. Reporter: Dr. T.Shanmuganatham, Professor, Pondicherry University, Pondicherry</p> <p>Design of SIW fed Antipodal Linearly Tapered Slot Antenna with Hat-Shaped Dielectric Loading for 60GHz Wireless Communications T. Rama Rao , C. Sarath, Nishesh Tiwari, SRM University, Chennai, Rajeev Jyoti, Satellite Application Center, ISRO, Ahmedabad.</p> <p>Design of CPW Fed Slot Antenna for Wi Max Application S. Ashok Kumar, Vel Tech University, T. Shanmuganatham, Pondicherry University, Pondicherry</p> <p>A Multimode Feed for Compact Offset Parabolic Reflector Antenna System Balvant J. Makwana, Government Engineering College, Rajkot, S.B.Sharma, Kush Parikh, Indus University, Ahmedabad</p> <p>L/S Dual Band Dual Polarized Antenna Gopika R, L Bhanu Pratap, Akhilesh Mohan, Indian Institute of Technology, Kharagpur India</p> <p>CPW Fed UWB Antenna: Triple Band Notched Characteristics Ajay Yadav, Malaviya National Institute of Technology, Jaipur, R.P. Yadav, Rajasthan Technical University Jaipur</p>

	<p>Compact Antenna Using IDC Based CRLH-TL Unit Cell having Non-Uniform Finger Width L Bhanu Pratap, Anil Kumar Nayak, Akhilesh Mohan, <i>Indian Institute of Technology Kharagpur.</i></p>
04:00pm-04:15pm	Tea break
04:15pm-05:00pm	<p>Invited Talk by Dr S.S.Patnaik, Vice chancellor, Biju Patnaik Univ. of Tech., Odisha</p>
05:00pm- 05:45pm	<p>Open Forum II:“Challenges in Doctoral Research and Supervision of PhD Students” Dr.R.K.Mishra, Professor, Behrampur University, Odisha & Dr.Debatosh Guha, Professor, IRPE, Univ. of Calcutta</p>
05:45pm– 06:05pm	<p>Presentation on “FEKO for Efficient Antenna Array Modelling” by Mr. Swapnil Kulkarni, Altair Engineering India.</p>
06.05pm-06.45pm	<p>Back to Basics Session: “Electromagnetics made Easy”by Dr.V.Abhaikumar, Principal, TCE, Madurai</p>
08:00pm- 09:00pm	Dinner
Day 3: June 8, 2016 (Wednesday)	
09:00am-09:45am	<p>Tutorial on “Photonics in Radar System” Dr. D.C Pande, Dr.Raja Ramana DRDO- Distinguished Fellow, DRDO, Bengaluru</p>
09:45am-10:45am	<p>Key note address Title: “Leaky Waves: Concept and Applications to Antennas” Dr. Arokiaswami Alphones, Professor, Nanyang Technological University, Singapore</p>
10:45am - 11:00am	Tea break
11:00am - 11:45am	<p>Invited talk on "Design and development of Antennas for Atmospheric Radars" Dr. K.P.Ray, Programme.Director & Head, RF & Microwave System SAMEER, Mumbai</p>
11:45am-12:30pm	<p>Invited Talk on “Polarization of antenna” by Dr.Surendra Pal, Vice chancellor, Defence Institute of Advanced Technology, Pune</p>
12:30pm - 12:50pm	<p>Presentation on “RF Absorbers and Anechoic Chambers” by Mahesh Kala, JV Micronics</p>
12:50pm - 01:10pm	<p>Presentation by Mr. Sadanand Bhatt, Anritsu India Pvt Ltd</p>
01:10pm- 02:00pm	Lunch
02:00pm- 03:30pm	<p>Research Paper Presentation Session II Chair Person: Dr. Ramesh Garg, Dean (FAA), Indian Institute of Technology Ropar. Juries: Dr. S.S.Patnaik, Vice chancellor, Biju Patnaik Univ. of Tech., Odisha Dr. S. Raghavan, Professor, National Institute of Technology, Trichy. Reporter: Dr. S. Suganthi, Professor, Christ University, Bangalore</p>
	<p>UWB based Compact Fractal Antenna for Indoor Wireless Communication Environments Susila M, Rama Rao T and Pushpalatha M, <i>SRM University, Chennai</i></p>

	<p>On the Synthesis Techniques for Linear Arrays Using Novel Evolutionary Computing Tools V.S.S.Chakravarthy, P.S.Rchowdary, <i>Raghu Institute of Technology Visakhapatnam</i>, Rabindra K.Mishra, <i>Berhampur University Berhampur, Odisha</i>, Jaume Anguera, <i>University Ramon Llull Barcelona, Spain</i></p> <p>A Miniaturized Ultra-Wideband UHF Antenna Vigneshram. R, S. Deepak Ram Prasath, S. Raju <i>Thiagarajar College of Engineering, Madurai.</i></p> <p>Design of Modified Reconfigurable RIS and Its Application in Patch Antenna Miniaturization Arijit Mitra, Anumoy Ghosh, <i>Indian Institute of Engg Science & Technology, Shibpur Howrah</i> and Santanu Das, NIT, Mizoram</p> <p>Band Gap Analysis of a novel C Slot Electromagnetic Band Gap Structure D.Helena Margaret and S.Suba , <i>Alagappa Chettiar College of Engineering and Technology, Karaikudi</i> and B. Manimegalai, <i>TCE, Madurai</i></p>
03.30pm-03.45pm	Tea break
03:45pm-05:15pm	<p>Research Paper Presentation Session III</p> <p>Chair Person: Dr. Surendra Pal, Vice chancellor, Defence Institute of Advanced Technology, Pune</p> <p>Juries: Dr. K. P. Ray, Programme Director & Head, RF & Microwave System, SAMEER, Mumbai Dr.V.Ramachandra, Scientist G, ADE, Bangalore</p> <p>Reporter: Dr. T. Rama Rao, Professor, SRM University, Chennai</p> <p>Annular Antenna System for Microwave Imaging for Breast Cancer Detection Amit S Narkhede, Bhaskara Naik S, Jagadish Prajapati, Abhay Gandhi, <i>SAMEER, IIT Bombay Campus, Powai</i></p> <p>Gain enhancement of millimetre wave antenna using superstrate Shilpi Ruchi Kerketta, Dr. Debalina Ghosh , <i>Indian Institute of Technology Bhubaneswar Bhubaneshwar.</i></p> <p>Bandwidth Enhancement of Planar Monopole Antenna by loading Metamaterial based Via-less CRLH Unit Cells N. V. Rajasekhar , Harish Adhithya, D. Sriram Kumar, <i>National Institute of Technology, Tiruchirappalli.</i></p> <p>A Design of Miniaturized Half-Mode Substrate Integrated Waveguide Cavity Backed Antenna Arvind Kumar, S. Raghavan, <i>National Institute of Technology, Tiruchirappalli.</i></p> <p>SIW Periodic Leaky Wave Antenna With Improved H-Plane Radiation Pattern Using Baffles Ravi Shaw, Mrinal Kanti Mandal, <i>Indian Institute of Technology Kharagpur.</i></p> <p>Design of Elliptical Antenna For UWB Applications with High Isolation Makarand Nikam,, Sukanya Kulkarni, <i>Sardar Patel Institute of Technology</i></p> <p>Synthesis of Non-uniformly Spaced Planar Array Geometry using Differential Evolution Algorithm Ananya Mukherjee, S .K. Mandal, Rowdra Ghatak, <i>National Institute of Technology, Durgapur.</i></p>

	<p>Design and SAR Analysis Microstrip Patch Antenna for Biomedical Applications <i>Deborah.S, N.Victor Jayal, Anna University,Chennai, T.Jayanthy, Panimalar Institute of Technology, Chennai</i></p>
03:45pm-05:15pm	<p>Research Paper Poster Session IV Juries: <i>Dr. M.Vijayasree, Senior Scientist, RCI, Hyderabad,</i> <i>Dr.S.Subha Rani, Professor, PSG College of Technology, Coimbatore,</i> <i>Dr. K. Malathi, Asso. Professor, Anna University, Chennai</i></p> <p>A Probe fed Cylindrical Dielectric Resonator Antenna with Low Cross-polarization level, <i>A.V. Praveen Kumar, BITS Pilani, Rajasthan, India</i></p> <p>Compact MIMO Antenna for portable devices in UWB Applications, <i>P.Thiruvallar selvan ,TRP Engineering College, Trichy, S.Suganthi, K.Ramakrishnan College of Technology, Trichy, S.Raghavan, NIT, Trichy..</i></p> <p>Design of Dual Layer Aperture-Coupled Inverted Double U-Slot Triple-Band Patch Antenna for Wireless Communication Applications, <i>Naresh Kumar Darimireddy, Lendi Inst. of Engg, Vizianagaram, R. Ramana Reddy, MVGR Coll. Of Engg, Vizianagaram, A. Mallikarjuna Prasad, UCEK, JNTUK, Kakinada, AP</i></p> <p>Bandwidth Enhancement of 4-Slits RMPA with Circular Slot, <i>Thingbaijam Rajkumari Chanu, Dhiraj Kumar, National Institute of Technology Mizoram Aizawl, India</i></p> <p>Conductor Backed CPW Fed Q-Shaped Antenna for C/Ku band Applications, <i>T.Shanmuganantham, D.Sindhanaiselvi, Pondicherry University, Puducherry</i></p> <p>Penta-Band based Integrated Antenna with Low Noise Amplifier for Vehicular Applications, <i>Ramya Vijay, T. Rama Rao, Revathi Venkataraman, SRM University, Chennai</i></p> <p>Realization of Dual and Tri Bands using Pentagon Slot based Linear and Planar Antenna Array, <i>Sanjeeva Reddy, B.V.Raju Institute of Technology Narsapur, Medak, and B.R,Vakula.D, National Institute of Technology, Warangal.</i></p> <p>Design and Analysis of a Series-Parallel Coaxial Stub Type Balun Fed Dipole Antenna, <i>Chithra Liz Palson, Manju Lakshmy E. K., Ajeena Elza Sunny & D. D. Krishna, Rajagiri School of Engineering and Technology, Kochi.</i></p> <p>A Four band antenna for wireless applications, <i>Shanmuagpriya, Sibi chakravarthy S, Sarveshwaran N, Sasi V,Sriharini S, College of engineering, Anna university, Chennai</i></p> <p>Hexagonal Shaped Fractal CPW Antenna (HFMA) for Ultra-wideband Applications, <i>Hefilia Asokan and Srivatsun Gopalakrishnan, PSG College of Technology, Coimbatore.</i></p> <p>Novel miniaturized Frequency Selective Surface for WLAN shielding <i>Ramprabhu Sivasamy, SSN College of Engineering Chennai and K.Malathi College of Engineering, Anna University, Chennai</i></p>
05:15pm-06:00pm	<p>Open Forum III: “Challenges & Opportunities for Antennas in Defence and Space Applications Dr.M.Balachary, Scientist G, DLRL, Hyderabad, Dr.M.Chakravarthi, Scientist G, , DLRL,Hyderabad, Dr.M.Vijayasree, Scientist G, RCI, Hyderabad. Dr.Diptiman Biswas, Scientist F, ADE, Bangalore.</p>

06:00pm-06:30pm	Back to the Basics Session” “Is Antenna Made of Mathematics?” Dr.Debatosh Guha, <i>Professor, IRPE, Univ. of Calcutta</i>
08:00pm- 09:00pm	Dinner
Day 4: June 9, 2016 (Thursday)	
9:00am-09.45 am	Invited talk on “Uncertainty in Antenna Measurements?” Dr. K.T. Selvan, <i>Professor, SSN College of Engineering, Kalavakkam, Tamil Nadu</i>
09:45am-10:30am	Invited talk on “An Introduction to Fractal Antenna” Dr R.K. Mishra, <i>Professor, Behrampur University, Odisha</i>
10:30am- 11:00am	Presentation by <i>National Instruments</i>
11:00am -11:15am	Tea break
11:15am -11:45am	Invited talk on “Frequency Notched UWB Antennas: New techniques and Concepts” Dr. Chinmoy Saha, <i>Asst. Professor, IIST, Thiruvananthapuram</i> , Dr. Jawad Y. Siddiqui, <i>Professor, IRPE, Univ. of Calcutta</i>
11:45am–12:30pm	Open Forum- III: “Challenges & Opportunities for Antennas for Wireless Applications” Dr. Kin Lu Wong, <i>Sun Yat-sen Chair Professor, NSTU, Kaohsiung, Taiwan</i> , Dr. S.Raju, <i>Professor, TCE, Madurai</i> , Dr.Jeyaprakash Thakur, <i>Sr. Antenna Design Engineer, Intel, Bangalore</i> , Mr.S. Deepak Ram Prasath, <i>Vice President, TTSL, Madurai</i>
12:30pm–12:50pm	Industry Presentation by <i>Entuple Technologies</i>
12:50pm–01:10pm	Industry Presentation by <i>Zebra Technologies</i>
01:10pm-02:00pm	Lunch
02:00pm-02:45pm	Invited talk on “Multi Function Antenna” Dr.Satyajit Chakrabarti, <i>Senior Scientist, SAMEER, Kolkata Centre.</i>
02:45pm-03.30pm	Invited talk on “Periodic Configurations and their Applications in Antennas” Dr. P.H.Rao, <i>Senior Scientist, SAMEER, Chennai</i>
03:30pm-04.15pm	Open Forum IV: “Recent Works and Research Thoughts in Antennas” Dr.Sudhakar Sahu, <i>Asso.Professor, KIIT Univ. Bhubaneswar</i> , Dr. Akhilesh Mohan, <i>Asst. Professor, IIT, Kharagpur</i> , Dr.Koushik Dutta, <i>Asst. Professor, NSEC, Kolkata</i> , Dr.Rajarshi Bhattacharya, <i>Asst. Professor, NIT, Patna</i> , Dr.Halappa R Gajera, <i>Asst. Professor, Univ. of Mysore.</i>
04:15pm-04.30pm	Tea break
04:15pm- 6:00pm	Research paper presentation session V Chair Person: Dr.D.C Pande, <i>Dr.Raja Ramana DRDO- Distinguished Fellow, DRDO, Bengaluru</i> Juries: Dr. Debatosh Guha, <i>Professor, Institute of Radio Physics and Electronics, University of Calcutta</i> Dr. R.K.Mishra, <i>Professor, Behrampur University, Odisha</i> Reporter: Dr.V.K.Manoharan, <i>Professor, PSG College of Technology, Coimbatore</i>

	<p>Performance Analysis of 3 Port Multimode Antenna for MIMO Communication Akshay Jain & Dr.Sandeep Kumar Yadav, DEAL, DRDO, Dehradun, Indian Institute of Technology, Jodhpur</p> <p>Near Field measurement and analysis for RADOME Characterization Anil Chepala, GVRK Rao, A.Renuka and V.Sarala, Research Centre Imarat, Hyderabad.</p> <p>Design and Characterization of a Body Implanted Dual Band Antenna Md Nurul Hassan, <i>Advanced Integrated Tech Lab Kolkata.</i></p> <p>Design Of Double Layers Dichroic Subreflector For S And X Band Cassigrain Antenna Sandip Sankar Roy, T.Naga Shekhar, C S Padmabhathy, Kesab Bhattachariya, Naresh Kumar M, National Remote Sensing Centre, Hyderabad, Chinmoy Saha, Indian Institute of Space Science and Technology, Thiruvananthapuram</p> <p>Antenna for Metal Body Mobile Devices Praveen Kumar, Jayprakash Thakur, Intel Technology India, Bangalore.</p> <p>Optically transparent Grapheme-based patch antenna at microwave frequencies, Ruchi Sitaram Padekar, Jayprakash Thakur Prof. Manish Parmar, Intel Technology India Pvt. Ltd, Bengaluru</p> <p>Design and Optimization of Patch Antenna in S Band with increased Feed Length, Diptiman Biswas, M. N. Srinivasa Rao, Selvanayaki K, Ramachandra V, ADE, Bengaluru.</p>
04:15pm-06:00pm	<p>Research paper poster presentation Session VI <i>Juries: Dr.Diptiman Biswas, ADE, Bangalore, Dr.Satyajit Chakrabarti, Senior Scientist, SAMEER, Kolkata Centre.</i> <i>Dr.D.Sriram Kumar, Asso.Professor, ECE Department, National Institute Technology, Tiruchirappalli</i></p> <p>Design of CPW fed monopole antenna at MICS Band for Biomedical Applications D.Dileepan, S.Ashok Kumar, <i>Vel Tech Dr.RR & Sr.SR Technical University, Chennai, T.Shanmuganathan, Pondicherry University</i></p> <p>Design and Parametric Study of Ultra Wideband PIFA Antenna, Reconfigurable Partially Reflective Surface Antennas for Wireless Applications, Ipsita Chakraborty, Vibha Rani Gupta, <i>Birla Institute of Technology, Mesra Ranchi</i> R.Srividhya, K.Soundarya, S.Saravanan, <i>Sri Venkateswara College of Engineering, Anna University</i></p> <p>Design And Simulation Of 4G-LTE Band Antenna For Wireless Router Application, Liya Johnson, S.Merlin Gilbert Raj, <i>Karunya University Coimbatore</i></p> <p>A New shaped Dielectric Resonator Antenna excited by a Monopole for Ultra Wideband Applications, Rudraishwarya Banerjee, Susanta Kumar Parui, <i>Indian Institute of Engineering, Science and Technology Shibpur, Howrah, India</i></p> <p>CPW-Fed Small Metamaterial Inspired Antenna for WiMax and WLAN Applications, R. Sanmuga Sundaram, S.Ashok Kumar, <i>Vel Tech University, Chennai, T. Shanmuganatham, Pondicherry University.</i></p>

	<p>Dual Band Planar Inverted F Antenna with Metamaterial Superstate for LTE/WLAN/WiMAX Mobile Communication, Rajpreet Kaur, Surekha, <i>Ludhiana College of Engineering & Technology Punjab,</i> Naveen Kumar, <i>Thapar University, Punjab</i></p> <p>A Compact Slotted Microstrip Antenna for L and S Band Applications, Chaithanya Raj, S. Suganthi, <i>SNM Institute of Management and Technology,</i> Maliankara, N. Paravur, <i>Christ University, Bangalore</i></p> <p>Optimization of Fractal Microstrip Patch Antennas for Wireless Communication, M K Bhanarkar ,G B Waghmare, <i>Department of Electronics, Shivaji University,</i> <i>Kolhapur, India</i></p> <p>Comparative study of feeding techniques for 60GHz microstrip patch antenna array design, Manasa M, Jayprakash Thakur and B A Sujthakumari, <i>Intel Technology India Pvt. Ltd., Bengaluru.</i></p> <p>Dual Band Rectangular Slot Coupled Rectangular Dielectric Resonator Antenna for Wireless Application Aditi Ashok Here, K.D.Kulat, <i>Visvesvaraya National Institute of Technology, Nagpur</i></p> <p>Design and Simulation of S Band Triangular Koch Fractal based on Yagi-Uda Antenna Rajeev Kumar and Radha Krishna, <i>University of Madras, Chennai</i></p>
06:00pm-6:30pm	<p>Back to the Basics Session: "Antenna Measurements Made Easy" Mr. S. Deepak Ram Prasath, <i>Vice President, Thiagarajar Telekom Solutions Limited (TTSL), Madurai</i></p>
08:00pm- 9:00pm	Dinner
Day 5: June 10, 2016 – Friday	
09:00am- 09.45am	<p>Invited Talk on "Milestones of Planar Transmission Lines" Dr.S.Raghavan, <i>Professor, National Institute of Technology, Tiruchirappalli</i></p>
09:45am–10:30am	<p>Invited Talk by Dr. Rajeev Jyoti, <i>Group Director, Antenna Systems Group, SAC – ISRO, Ahmedabad</i></p>
10:30am-11.00am	Tea break
11:00am-12.00noon	Valedictory and Certificate Distribution
12:30pm-01:30pm	Lunch