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<th>Friday 16-12-2016</th>
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<td>08.00 A.M</td>
<td>REGISTRATION</td>
<td>8.30 A.M to 11.15 A.M</td>
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<td>09.30 A.M</td>
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<td>10.30 A.M-11.10 A.M</td>
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<td>11.15 A.M to 12 P.M</td>
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<td>Prof. Tapan K Sarkar, Syracuse University, USA.</td>
<td>INVITED TALK-4</td>
<td>INVITED TALK 9</td>
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<td>11.15 A.M-12 P.M</td>
<td>INVITED TALK 1</td>
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<td>Dr. Magdalena Salazar-Palma, University of Madrid, Spain</td>
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<td>12.05 P.M to 12.50 P.M</td>
<td>Dr. SN Joshi, CEERI, Pilani</td>
<td>Dr VPN Nampoori CUSAT</td>
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<td>2.50 pm to 4.20 pm</td>
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<td>Dr. Zhongxiang Shen, Nanyang Technological University, Singapore</td>
<td>Dr. M.V.Kartikeyan, IIT, Roorkee, India</td>
<td>Dr. VPN Nampoori CUSAT</td>
</tr>
<tr>
<td>4.30 pm to 5.30 pm</td>
<td>INVITED TALK 4</td>
<td>INVITED TALK 7</td>
<td>INVITED TALK 3</td>
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<td>Dr. Surya K. Pathak, Institute for Plasma Research, INDIA</td>
<td>Dr. Surya K. Pathak, Institute for Plasma Research, INDIA</td>
<td>Dr. Zhongxiang Shen, Nanyang Technological University, Singapore</td>
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<tr>
<td>3.45 PM to 5.00 P.M</td>
<td>TEA</td>
<td>INVITED TALK 8</td>
<td>INVITED TALK 4</td>
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<td>RS-I Microwave filters</td>
<td>RS-I Microwave filters</td>
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<td>RS-II Meta materials</td>
<td>RS -II Meta materials</td>
<td>RS -II Meta materials</td>
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<tr>
<td>3.45 PM to 5.00 P.M</td>
<td>Poster presentation</td>
<td>3.45 PM to 5.00 P.M</td>
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**RS-V** Microstrip Antennas 1

**RS-VI** Microwave Propagation

**RS-VII** Wideband Antennas

**RS-VIII** Microwave Devices and Materials

**EXPOSE/PIEM/GEEPS**, CentraleSupélec, France

**VISSLINK**, UK

**SAMEER**, Mumbai

**CUSAT**, India

**SAMEER**, Mumbai

**CUSAT**, India

**SAMEER**, Mumbai

**SAMEER**, Mumbai

**SAMEER**, Mumbai

**SAMEER**, Mumbai

**SAMEER**, Mumbai
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Chairman Welcomes You

To all participants, Fellow Scientists/Engineers/Students,

The organizers of APSYM-2016 welcome all of you for yet another event which you will definitely appreciate and enjoy. We cherish the memories of the early symposia in which selected groups of microwave fraternity assembled with dedication, commitment and thirst for knowledge in specific areas of Electromagnetics. I am sure that your presence will enrich this humble effort.

The Organising Committee of APSYM-2016 is carefully co-ordinating the events for APSYM-2016, and the details are made available at http://apsym.cusat.ac.in

We are looking forward for your active participation in APSYM-2016.

Cochin

December 6, 2016

Prof. K.G. Nair
OUR TRIBUTE TO GREAT PIONEERS

JAMES CLERK MAXWELL
Developed electromagnetic theory of radiation by his mathematical magic. His theoretical prediction of the existence of electric and magnetic fields associated with wave propagation carrying energy of electromagnetic nature was a breakthrough in the history of science. A new era of electromagnetism was thus opened by this great scientist.

HEINRICH HERTZ
Experimentally demonstrated the generation, propagation and detection of electromagnetic waves. Thus he gave a firm experimental support for the theoretical conclusions drawn by James Clerk Maxwell.

JAGADISH CHANDRA BOSE
The first Indian scientist who marked his footprints in the world of electromagnetics. In fact, Bose generated millimeter waves using a circuit developed in his laboratory and used these waves for communication, much earlier than the western scientists. He also developed microwave horn antennas which are still employed in many communication applications.
ORGANISING COMMITTEE

Chairman  Prof. K.G. Nair
Vice-Chairman  Prof. K. Vasudevan
Director  Prof. Supriya. M. H
Technical Programme  Prof. P. Mohanan
Accommodation  Prof. James Kurien
                  Dr. Bijoy A Jose
Local Arrangements  Mr. Arun A Balakrishnan
                  Mr. Mithun Haridas T P
Co-ordinator  Prof. C. K. Aanandan
MEMBERS

Abdul Rasheed  Prakash K C
Aji George    Prasanth M N
Alex Ra       Prasanth P P
Anila P V     Remsha M
Anitha R      Revathi
Anju P Mathews Roshna T K
Ann Varghese Sabna N
Anu Sabareesh Sajitha R
Athul Thomas  Sangeetha R
Bindhya Gabriel Satheesh Chandran
Cyriac M Odakkal Shakeena V A
Deepak U      Shameer Mohd.
Deepthi       Sreelakshmi
Dibin Mary George Sreekala P S
Jayakrishnan M P Sreenath S
Kurien Thomas Suja S
Libi Mol V A   Sumitha Mathew
Lindo A O      Suraj Kamal
Manoj M        Theresa Bernard
Midhun M S     Tina Edison
Mohammad Ameen Titu K Samson
Mohan Kumar    Tony D
Navya Mohan    Vinesh P V
Neeraj K Pushkaran Vinisha C V
Paulbert Thomas Vivek R
## ADVANCE PROGRAM APSYM 2016

### DECEMBER 15, THURSDAY

#### 8.00 a.m: Registration

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<td>INVITED TALK 2</td>
<td>Dr. K. P. Ray, SAMEER, Mumbai</td>
</tr>
<tr>
<td>02.00 p.m. to 02.45 p.m.</td>
<td>INVITED TALK 3</td>
<td>Dr. Zhongxiang Shen, NTU, Singapore</td>
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DECEMBER 15, THURSDAY
(2.50 p.m. to 4.20 p.m.)
Research Session-I
Microwave Filters
Hall-I

Chairs - Dr. Surya Pathak, IPR, Gujarat
Dr. K. T. Mathew, CUSAT, Cochin

1.1. Compact Microstrip Lowpass Filter With Sharp Roll-Off Using Folded Stepped Impedance Resonator (71)
T. K. Rekha, P. Abdulla, A.R. Anu, and Ami Iqubal
School of Engineering, Cochin University of Science and Technology, Kochi-22, Kerala, India.

1.2. Design Of A Novel CPW Filter Using Asymmetric DGS (17)
Makarand G. Kulkarni¹, A. N. Cheeran¹, K. P. Ray² and S. S. Kakatkar²
¹Department of Electrical Engineering, VJTI, Mumbai, India-400019
²SAMEER Mumbai, IIT Campus, Mumbai, India-400076,
E-mail: makarandkulkarni@somaiya.edu, ancheeran@vjti.org.in
E-mail: kpray@rediffmail.com, sandeep@sameer.gov.in

1.3. Half Mode Substrate Integrated Waveguide Bandstop filter with Split Ring Resonators at X-Band(94)
Anju P Mathews, Lindo A.O and C.K Aanandan
Department of Electronics, Cochin University of Science and Technology, Kochi-22, Kerala, India

1.4. Approximate Synthesis Of Microstrip Band Stop Notch Filter Using Hairpin DGS (1)
Sumit Mitra and Sudhabindu Ray
Department of Electronics and Telecommunication Engineering, Jadavpur University, Kolkata, West Bengal, India
E-mail: masters.sumit@gmail.com, sudhabin@etce.jdvu.ac.in
1.5. Compact Lowpass Filter with Extended Stopband Bandwidth (84)
Raphika P.M\textsuperscript{1}, Jasmine P.M\textsuperscript{1} and Abdulla P\textsuperscript{2}.
\textsuperscript{1}Dept. of Electronics, M. E. S. College Marampally, Aluva-7, Kerala, India. 
E-mail: pmraphika@yahoo.co.in, jasmine.maiyn@gmail.com
\textsuperscript{2}School of Engineering, Cochin University of Science and Technology, Kochi-22, Kerala, India. E-mail: abdulla@cusat.ac.in

1.6. A Novel Bandpass Filter using dual mode chamfered square Patch Resonator with diamond shaped slots (85)
Ami Iqubal\textsuperscript{1}, Abdulla P\textsuperscript{1}, Rekha T.K\textsuperscript{1}, Anu A.R\textsuperscript{1} and Jasmine P.M\textsuperscript{2}, Raphika P.M\textsuperscript{2}.
\textsuperscript{1}School of Engineering, Cochin University of Science and Technology, Kochi - 22, Kerala, India
\textsuperscript{2}Department of Electronics, M. E. S. College Marampally, Aluva-7, Kerala, India

DECEMBER 15, THURSDAY
2.50 p.m to 4.20 p.m
Research session –II
Metamaterials
Hall-II

Chairs - Dr. Hema Singh, NAL, Bangalore
Dr. Binu Paul, CUSAT, Cochin

2.1. Metasurface Based Circularly Polarized Antenna For C- Band Application (58)
Pramitha TP, Saira Joseph and Sunil Jacob
Department of Communication Engineering, SCMS School of Engineering and Technology, Karukutty. E-mail: pramithatp@gmail.com

2.2. Metamaterial Based Via-Less CRLH Unit Cells Loaded CPW Fed UWB Planar Monopole Antenna (31)
N. V. Rajasekhar\textsuperscript{1} and D. Sriram Kumar\textsuperscript{2}
2.3. Extraordinary Transmission: An Antenna Application (77)
Sarin V.P\textsuperscript{1}, Jayakrishnan M.P\textsuperscript{2}, C.K Aanandan\textsuperscript{2}, P. Mohanan\textsuperscript{2} and K. Vasudevan\textsuperscript{2},
\textsuperscript{1}Govt. College Chittur, Palakkad, Kerala, India
\textsuperscript{2}CREMA Lab, Cochin University of Science and Technology
E-mail: sarincrema@gmail.com, vasudevankdr@gmail.com

2.4. Polarization Independent Multiband Absorber With Enhanced Bandwidth In Ku Band (96)
Libi Mol VA and C K Aanandan
Dept. of Electronics, Cochin University of Science and Technology
Cochin, Kerala, India, E-mail: libimol_va@cusat.ac.in

2.5. A Two-Layer Circularly Polarized High Gain Antenna for 5.2 GHz WLAN Applications (97)
Mohammad Ameen, Sumitha Mathew, Prakash K. C, Manoj. M, P Mohanan and K. Vasudevan
Cochin University of Science and Technology, Cochin.
Email:mohammadmn61@gmail.com, sumithamathew@gmail.com, keyceepee@gmail.com, manojmelpadam@gmail.com, vasudevankdr@gmail.com

DECEMBER 15, THURSDAY
4.30 p.m to 5.30 p.m
Research Session-III
Slot Antennas
Hall-I

Chairs - Dr. K P Ray, SAMEER, MUMBAI
Dr. Deepti Das Krishna, RSET, COCHIN

3.1. Coplanar Waveguide Fed Tapered Slot Antenna With Frequency Notched Characteristics (41)
Latheef A. Shaik\textsuperscript{1}, Chinmoy Saha\textsuperscript{1}, Jawad Y Siddiqui\textsuperscript{2} and Y.M.M. Antar\textsuperscript{3}
3.2. Compact Circularly Polarized Suspended Microstrip Antenna With “SWASTIKA” Shaped Slot (20)
Jagori Raychaudhuri\textsuperscript{1}, Jayjit Mukherjee\textsuperscript{1} and Sudhabindu Ray\textsuperscript{2}
\textsuperscript{1}Department of Physics Jadavpur University, West Bengal, India, E-mail: jagori.ju@outlook.com, jyjt.ju@outlook.com
\textsuperscript{2}Department of Electronics and Telecommunication Engineering Jadavpur University, Kolkata-700032, West Bengal, India, E-mail: sudhabin@yahoo.com

3.3. Circularly Polarized Cross-Slot Loaded Koch Fractal Square Patch Antenna (72)
Sundaravel Elumalai Maddur\textsuperscript{1} and Siddhartha Bhaskar Arja\textsuperscript{2}
\textsuperscript{1}Department of Electronics and Communication Engineering Hindustan University Padur, Chennai, Tamil Nadu, India. E-mail: sundaravelme@gmail.com
\textsuperscript{2}Department of Electronics and Communication Engineering Hindustan University Padur, Chennai, Tamil Nadu, India. E-mail: siddharthaarja@gmail.com

3.4. Circularly Polarized Microstrip Antenna With A Multi-Fractal Cantor Slot For Uhf Rfid Reader Applications (78)
Manju Abraham, Parvathy A.R and Thomaskuttuy Mathew Department of Electronics. School of Technology and Applied Sciences M.G. University Kochi, Kerala, India. E-mail: manjuarun1@yahoo.com, drtkmatew@gmail.com

3.5. Resistively Loaded Slotted Microstrip Patch Antenna With Controllable Bandwidth (80)
Sandip Sankar Roy\textsuperscript{1}, Naresh KM\textsuperscript{1} and Chinmoy Saha\textsuperscript{2}
\textsuperscript{1}National Remote Sensing Centre, Balanagar, Hyderabad, 500625, India,
\textsuperscript{2}Indian Institute of Space Science and Technology Valiamala, Thiruvananthapuram-695 547, India

3.6. Suspended Compact Circularly Polarized Planar Antenna With Square Spiral Slot (8)
Jayjit Mukherjee¹, Jagori Raychaudhuri¹ and Sudhabindu Ray²

¹Department of Physics Jadavpur University, Kolkata-700032, West Bengal, India . E-mail: jyjt.ju@outlook.com
²Department of Electronics and Telecommunication Engineering Jadavpur University, Kolkata-700032, West Bengal, India . E-mail: sudhabin@yahoo.com

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DECEMBER 15, THURSDAY
4.30 p.m to 5.30 p.m
Research session-IV
Microstrip Antennas I
Hall-II

---

Chairs - Dr. Latha Christie, DRDO, BANGALORE
Dr. Thomaskutty Mathew, MG University

4.1. Analysis And Design Of Broadband Corner Truncated Rectangular Microstrip Antenna (74)
Amit A. Deshmukh¹, Divya Singh¹, A. Odhekar¹, Sanjay Deshmukh¹ and K. P. Ray²

¹EXTC, DJSCE, MU, Mumbai – 400 056, India, . E-mail: amitdeshmukh76@rediffmail.com
²RFMS, SAMEER Mumbai, IIT Campus, Powai, Mumbai– 400 076, India, Email: kpray@rediffmail.com

4.2. Analysis Of A Single Shorted Rectangular Microstrip Antenna For 50Ω Microstrip Feed (27)
S. M. Rathod¹, R. N. Awale ¹ and K. P. Ray²

¹Electrical Engineering Department Veermata Jijabhai Technological Institute Matunga, Mumbai- 400019, INDIA. E-mail: rathod.shivraj@gmail.com and mawale@vjti.org.in,
²RF and Microwave Power System Division Society for Applied Microwave Electronics Engineering and Research, IIT Campus, Powai, Mumbai- 400076, India . E-mail: kpray@rediffmail.com

4.3. Analysis Of Circularly Polarized E-Shaped Microstrip Antenna (76)
Amit A. Deshmukh¹, Priyal Zaveri¹, Sanjay Deshmukh¹, Anuja Odhekar¹ and K. P. Ray²
4.4. Ultra-Compact Truncated Ground Monopole Antenna For DCS 1800/PCS 1900 Applications (99)
Shameena V.A, Sreejith M Nair and P Mohanan
Cochin University of Science and Technology, Cochin, India.
E-mail: shameenava@gmail.com, sreejithnairm@gmail.com, drmohan@gmail.com

4.5. Frequency And Polarization Reconfigurable On Circular Patch Antenna (39)
Suresh Kumar M and Yogesh Kumar Choukiker
Department of Communication Engineering, School of Electronics Engineering, VIT University, Vellore, India
Emails: m.sureshkumar@vit.ac.in, yogesh.ku.84@gmail.com

4.6. A Compact CPW-Fed Circular Patch Antenna Loaded With CSRR For Multiband Operations (81)
Department of Electronics and Communication Engineering, National Institute of Technology, Trichirappalli 620 015, Tamil Nadu, India; E-mail: samson.rapheal@gmail.com
DECEMBER 16, FRIDAY
8.30 a.m to 11.15 a.m
Research session-V
Microstrip Antennas II
Hall-1

Chairs - Dr. Zhongxiang Shen, NTU, Singapore
Dr. G.S. Binoy, VISLINK, UK

5.1. A Dual Fed Planar Monopole Antenna for Cognitive
Radio Applications (32)
Arjuna Muduli¹ and Rabindra K. Mishra²
¹Department of Electronics and Comm. Engg., DIT
University, Dehradun, Uttarakhand 248009 (India), E-mail: mr.arjuna.muduli@ieee.org,
²Department of Electronic Science, Berhampur University,
Berhampur, Odisha 760007 (India), E-mail: r.k.mishra@ieee.org

5.2. A New Compact Multiband Microstrip Antenna For
GSM/WLAN/WIMAX Applications (38)
Yadhu Krishnan M K, Chetan Desai and Milind
Fernandes,
Department of Electronics and Telecommunication
Government of Goa College of Engineering Ponda, Goa,
India.

5.3. Design And Development Of Multilayered,
Broadband And Dual Polarized Microstrip Patch
Antenna (43)
Priyanka Rawat¹ and Aarti Gehani²
¹Department of Electronics and Communications
Engineering, Institute of Technology, Nirma University,
Ahmedabad 382481. E-mail: rawatpriyanka@gmail.com,
²Department of Electronics and Communications
Engineering, Institute of Technology, Nirma University,
Ahmedabad 382481. E-mail: aarti.gehani@nirmauni.ac.in

5.4. Tri-Band Wearable Microstrip Patch Antenna (5)
Jayant G. Joshi¹ and Shyam S. Pattnaik²
1Department of Electronics & Telecomm. Engineering Government Polytechnic, Nashik, India, jgjoshiantenna@gmail.com,
2Biju Patnaik University of Technology (BPTU), Rourkela, Odisha, India. E-mail: profshyampattnaik@gmail.com

5.5. Dual Band Corner Truncated Sectoral Patch Antenna With Dual Slits For GPS And WLAN (93)
Sumitha Mathew, Anitha R., Vinesh P. V., Mohammad Ameen and K. Vasudevan
Dept. of Electronics, Cochin University of Science & Technology
Kochi, Kerala, India

5.6. The Modal Conversion In Quarter Wave Transformer-Fed Rectangular MPA Using DMS Technique For Dual Band Operation (90)
Murthi Mahadeva Naik G1, Halappa Gajera2 and Naveen Kumar S. K3
1Department of Electronics and Communication, Malnad College of Engineering, Hassan 573202, Karnataka, India,
E-mail: murthyishu1@gmail.com
2Department of Studies in Electronics, PG Centre, University of Mysore Hassan 573226, Karnataka, India,
E-mail: haleshn@rediffmail.com,
3Department of Electronics, Mangalore University, Mangalore, Karnataka, India, E-mail: nave12@gmail.com

5.7. Design Of A Compact Antenna For Biomedical Applications (69)
Tanmaya Kumar Das1 and Santanu Kumar Behera2
1Department of Electronics and Communication Engg. National Institute of Technology, Rourkela, India, E-mail: tanmaykumar.das@gmail.com,
2Department of Electronics and Communication Engg. National Institute of Technology Rourkela, India, E-mail: skbehera@ieee.org

5.8. Improved Design of Balanced Antipodal Vivaldi Antenna (95)
Bhavya E V and Sudhir H
DLRL, DRDO, Hyderabad, India

5.9. Tripleband Spiral Antenna For GSM, Bluetooth And C Band Applications (48)
Roshni S. A, Saira Joseph and Sunil Jacob
5.10. Bandwidth and Isolation Enhancement in Compact MIMO Antenna using Ring Shaped Ground

R. Anitha, C. K. Aanandan, P. Mohanan, K. Vasudevan
Cochin University of Science and Technology, Cochin.

6.1. Microwave Emissivity Of Arid Regions Of Australia

Tinu Antony, Suresh Raju C., Nizy Mathew and Renju R
SpacePhysics Laboratory, VSSC, Indian Space Research Organization, Thiruvananthapuram, Kerala, India.

6.2. Graded Porous Wall Configuration For Radome Applications

Vineetha Joy, Mahima P and Raveendranath U. Nair
Centre for Electromagnetics (CEM), CSIR-National Aerospace Laboratory, Bangalore, India

6.3. Radome For Uav Surveillance Radar

Selvanayaki Kulandaisamy, Rahul B, Ravishankar Bn, Akhilesh Kumar Jha, Vamshidhar S, Diptiman Biswas and Ramachandra V
Aeronautical Development Establishment (ADE), DRDO, Bangalore
6.4. Application Of Ground Based Microwave Radiometry For Characterizing Tropical Convection (16)
R. Renju and C. Suresh Raju
Space Physics Laboratory, Vikram Sarabhai Space Center, Thiruvananthapuram-695022, India.

6.5. Preliminary Performance Evaluation Of Irnss-Gps-Sbas Receiver In Terms Of Position Accuracy And Velocity (49)
P. Sathish D. Krishna Reddy and A.D Sarma
Dept. of Electronics and Communication Engineering, Chaitanya Bharathi Institute of Technology, Hyderabad, India

6.6. MOM-CG Based Approach For RCS Analysis Of Cylindrical Structures (66)
Neethu P.S.¹, A.B. Subhalakshmy² and Hema Singh¹
¹Centre for Electromagnetics (CEM), CSIR-National Aerospace Laboratories Bangalore, India
²Department of Electronics, Cochin University of Science and Technology, Kochi 682002, India

6.7. Radar Cross Section Of A Coated Elliptic Cylinder Using Addition Theorem (4)
Manmohan C.T.¹, R.U. Nair² and Hema Singh²
¹Department of Electronics, Cochin University of Science and Technology, Kochi 682002, India
²Centre for Electromagnetics (CEM), CSIR-National Aerospace Laboratories Bangalore 560017, India

6.8. Automatic Extraction Of Built-Up From SAR Imagery (14)
Chetna Soni¹, Manoj Joseph², A.T. Jeyaseelan² and J.R. Sharma²
¹Banasthali University, Department of Earth Science, Rajasthan, India, E-mail: chetnasoni425@outlook.com
²Regional Remote Sensing Centre-West NRSC/ISRO, CAZRI Campus, Jodhpur, Rajasthan, India

6.9. Study Of 2d Localization Using Simo Antenna (54)
Pratik Laddha¹, Rathna Prasad¹, U. Sripathi Acharya¹, Pathipati SriHari¹, Prasad.S² and P.H. Rao²
¹NITK Surathkal,
²SAMEER-CEM, Chennai, E-mail: phrao@cem.sameer.gov.in
6.10. Inverse Scattering Using Scattered Field Pattern

Babu Linkoon P Meenaketan, Srikanta Pal and N. Chattoraj

Department of Electronics and Communication, Birla Institute of Technology, Mesra Ranchi, India,
E-mail: linkon1987@gmail.com, pal_srikanta@yahoo.co.uk, nila_chwdhry@yahoo.com
DECEMBER 16, FRIDAY

11.30 a.m to 12.15 p.m
INVITED TALK-4
Jean-Marc Laheurte
University of Paris, France

12.20 p.m to 1.00 p.m
INVITED TALK-5
Dr. S.N. Joshi,
CEERI, Pilani, Rajasthan.

2.00 p.m to 2.45 p.m
INVITED TALK-6
Dr. M.V.Kartikeyan,
IIT, Roorkee, India

2.50 p.m to 3.30 p.m
INVITED TALK-7
Surya K. Pathak,
Institute for Plasma Research
Gujarat, INDIA
7.1. Design Of Goblet Shape UWB Microstrip Monopole Antenna (13)

RK Singh¹ and Dhaval Pujara²

¹Department of Electronics & Communication Engineering, Nirma University, Ahmedabad, Gujarat, India. E-mail: 4exphde127@nirmauni.ac.in, dhaval.pujara@nirmauni.ac.in

7.2. Modified Circular Patch Monopole Antenna For Ultra-Wide Band Response(75)

Amit A. Deshmukh¹, Payal Mohadikar¹, Sanjay Deshmukh¹, Anuja Odhekar¹ and K. P. Ray²

¹EXTC, DJSCE, Mumbai, India, E-mail: amitdeshmukh76@rediffmail.com
²SAMEER, IIT Campus, Powai, Mumbai, India

7.3. Reduction Of Mutual Coupling In Uwb Mimo Antenna Using Defected Ground Structure (87)

Yogesh Singh and Anjali Chaudhari, Electronics & Telecommunication Department, SFIT, Borivali, Mumbai, India. E-mail: singhyogesh921@gmail.com, bachhav.anjali@gmail.com

7.4. Design Of A Compact Octagonal UWB Antenna For MIMO Systems (26)

K. Jagadeesh Babu, B. Kiran Kumar and A.M. Varaprasad

Dept. of ECE, St. Ann’s College of Engineering & Technology, Chirala, Andhra Pradesh, India

7.5. Compact Collapsible Wideband VHF Antenna (70)

Mary Rani Abraham, Abdul Wahab K.M, Sona O. Kundukulam and U. Ganesan

Naval Physical and Oceanographic Laboratory, Kochi, India. E-mail: maryraniabraham@gmail.com
7.6. A Compact UWB Circularly Polarized Hexagonal Slot Antenna for Wireless Applications
Cochin University of Science and Technology, Cochin,

7.7. An Antipodal Tapered Slot UWB Antenna With Frequency Notch Characteristics
Chittajit Sarkar\textsuperscript{1}, Chinmoy Saha\textsuperscript{2} and JY Siddiqui\textsuperscript{1}
\textsuperscript{1}Institute of Radio Physics and Electronics University of Calcutta Calcutta, 700009 India E-mail: chittajit.sarkar.in@ieee.org, jysiddiqui@ieee.org
\textsuperscript{2}Department of Avionics Indian Institute of Space science and Technology Thiruvananthapuram, 695547 India . E-mail:csaha@ieee.org

DECEMBER 16, FRIDAY
3.45 p.m to 5.00 p.m
Research session – VIII
Microwave Devices and Materials
Hall-II

Chair - Dr. M.V. Kartikeyan, IIT, Roorkee 
Dr. M. Gopikrishna, CUSAT

8.1. NDT Using Open-Ended Waveguides
Prosenjit\textsuperscript{1} Das\textsuperscript{1} and Sudhabindu Ray\textsuperscript{2}
\textsuperscript{1}School of Nuclear Studies and Application Jadavpur University Kolkata, India, Email: prosenjit.calcutta@gmail.com
\textsuperscript{2}Electronics and Telecommunication Engineering Jadavpur University Kolkata,India,Email: sudhabin@yahoo.com

8.2. Particle-In-Cell Simulations Of CC-TWT For Radar Transmitters
Latha Christie and Gopikrishna Erabati
Microwave Tube Research and Development Centre,DRDO, Ministry of Defence, Bangalore, India, 560013 ,E-mail: drchristie07@gmail.com

8.3. Design And Development Of Single Bit Miniaturized MEMS Phase Shifter
Anitha G and Usha Kiran K
\textsuperscript{1}VIT University, Chennai Campus, Chennai, India .E-mail: anitha.g2014phd1176@vit.ac.in ,usaha.kran@vit.ac.in
8.4. Em Analysis Of Hybrid Cylindrical Microwave Autoclave For Aerospace Application (83)
Centre for Electromagnetics, CSIR-National Aerospace Laboratories, Bangalore 560017, India. E-mail: raviunair@nal.res.in, shivnarayan@nal.res.in

8.5. Preparation, Characterization And Dielectric Properties Of Ba5ta4o15 Filled Polypropylene Composites For Microwave Substrate Applications (40)
Shereena Thomas, E.K. Suresh, A.N. Unnimaya, N.S. Arun and R. Ratheesh
Microwave Materials Group, Centre for Materials for Electronics Technology (C-MET), Ministry of Electronics and Information Technology, Government of India, Athani P.O, Thrissur, Kerala 680581, India, Email: ratheeshr@yahoo.com

DECEMBER 16, FRIDAY
3.45 p.m to 5.00 p.m
Poster Presentation

1. CPW Fed Compact high gain Ultrawide-Band Antenna Using Fractal Geometry (22)
Ravi Prakash Dwivedi and Usha Kiran Kommuri, SENSE, VIT University, Chennai, E-mail: raviprakash.dwivedi@vit.ac.in, Ushakiran.k@vit.ac.in

2. A Novel Ultra-Wide Band Microstrip Antenna Design using Notches, Slots, Stepped Microstrip Feed and Partial Ground (35)
R.K Singh and Dhaval Pujara, Electronics and Communication Engineering, Nirma University, Ahmedabad, Gujarat 382 481, India

3. Design of Compact Microstrip Apple Patch Antenna for Space Applications (36)
Deepanshu Kaushal and Shanmuganantham, Department of Electronics Engineering, Pondicherry University, Pondicherry, India E-mail: deepanshu_kaushal@yahoo.com, shanmuga.dee@ponduni.edu.in
DECEMBER 17, SATURDAY
8.30 a.m to 10.15 a.m
Research session - IX
Antenna Arrays
Hall - I

Chairs: Dr. Vikass Monebhurrun, Centrale Supélec, FRANCE
Dr. Anju Pradeep, CUSAT, COCHIN

9.1. A Compact Modified Corporate Feed Network For Antenna Arrays With Non-Identical Rectangular Microstrip Antenna Elements (19)
Bharati Singh¹, Nisha Sarwadea¹ and K. P. Ray²
¹Department of Electronics, VJTI, Mumbai 400 019
E-mail: bhartisingh@somaiya.edu, nishasarvade@vjti.org.in,
²SAMEER, IITB Campus, Powai, Mumbai 400 076 E-mail: kpray@sameer.gov.in

9.2. Probe Suppression In Dipole Array Mounted On Nonplanar Conducting And Dielectric Surfaces (3)
Ria Benny, Binu Joseph, R.U. Nair and Hema Singh
Centre for Electromagnetics (CEM), CSIR-National Aerospace Laboratories, Bangalore 560017, India,
E-mail: riabe91@gmail.com, binujoseph.mec@gmail.com, raviunair@nal.res.in, hemasingh@nal.res.in

9.3. Studies On Conformal Antenna Arrays Placed On Cylindrical Curved Surface (82)
K.S. Beenamole¹, S Gowri Shankar² and Sreejith CA¹
¹Electronics and Radar Development Establishment, Bangalore-93, Karnataka, India.
²RV College of Engineering, Bangalore- 59, Karnataka, India. Email ID: beena.mole.ks@lrde.drdo.in

9.4. Thinning Of Linear Antenna Array With Chebyshev Distribution Using Binary Particle Swarm Optimization (23)
Debanjali Sadhu¹, Diptashree Das¹, Soumyo Chatterjee¹ and Sayan Chatterjee²
¹Dept. of Electronics & Communication Engineering, Heritage Institute of Technology Kolkata, India.
E-mail: debanjali4@gmail.com
9.5. 2x2 Printed Cross Slot Array For 5.8 Ghz Ism Band Applications (79)

Parvathy A. R., Manju Abraham and Thomaskutty Mathew
Dept. of Electronics, School of Technology and Applied Sciences, M.G. University Regional Centre, Edappally Kochi, Kerala, India
E-mail: arpinmvk@gmail.com; manjuarun1@yahoo.com; drtkmathew@gmail.com

9.6. On The Reflection Phase Characteristics Of Rectangular And Circular Patch Reflectarray Elements (89)

V. Lingasamy¹, Krishnasamy T. Selvan¹ and Sembiam Rengarajan²
¹Department of Electronics and Communication Engineering SSN College of Engineering, Kalavakkam, India
²Department of Electrical and Computer Engineering California State University, Northridge, CA 91330-8346, USA
E-mail: lingasamyeece@gmail.com

9.7. Design Of Ku Band Conformal SATCOM Antenna For Aerospace Applications (45)

Arya Menon, Balamati Choudhury and R U Nair
Centre for Electromagnetics CSIR-National Aerospace Laboratories Bangalore, India.
E-mail: balamati@nal.res.in, raviunair@nal.res.in

9.8. Radiation Characteristics of Broadwall Slotted Waveguide Antenna Array (101)

Vinisha.C.V., K.Vasudevan, C.K.Aanandan and P.Mohanan,
Centre for Research in Electromagnetics and Antennas, Department of Electronics Cochin University of Science and Technology, Cochin, India
DECEMBER 17, SATURDAY
8.30 a.m to 10.15 a.m
Research session – X
Antennas
Hall-II

Chairs - Dr. P. Abdulla, CUSAT
Dr. Lethakumari, UCET, MG University

10.1. Design And Optimization Of A Ku-Band Compact Axial Corrugated Horn Antenna Using ANFIS (46)
Gupta Jay Vishnu, Grishma Jani and Dhaval Pujara
Department of Electronics and Communication Engineering, Institute of Technology, Nirma University, Ahmedabad, INDIA. Email: 16ftvphde14@nirmauni.ac.in, 15mecc10@nirmauni.ac.in, dhaval.pujara@nirmauni.ac.in

10.2. Normal Mode Helical Antenna At 1.8 Ghz With Small Circular Ground Plane (42)
Suman P. Wadkar1, S. M. Rathod2, Hemant Kumar3, Girish Kumar3 and B. G. Hogade4
1Pillai College of Engineering, New Panvel, Mumbai
2Veermata Jijabai Technological Institute, Matunga, Mumbai
3Indian Institute of Technology-Bombay, Mumbai
4Terna College of Engineering, Nerul, Mumbai
Email: spwadkar@mes.ac.in

10.3. Rectangular And Semicircular Shaped Aperture Coupled Hemispherical Dielectric Resonator Antenna (86)
Anu A. R., Abdulla. P, Rekha T. K and Ami Iqubal
School of Engineering, Cochin University of Science and Technology, Kerala, India

10.4. A Cylindrical Pin Loaded Rectangular Drai For Wide Band Applications (59)
G. Bharath Reddy and D. Sriram Kumar
Department of Electronics and Communication Engineering, National Institute of Technology, Tiruchirappalli, India. Email: bharath09478@gmail.com, srk@nitt.edu
10.5. Gain Enhancement Of Photoconductive THz Antenna Using Conical GaAs Horn And Si Lens (47)  
Utkarsh Deva¹ and Chinmoy Saha²  
¹. Physical Research Laboratory and Indian Institute of Space Science and Technology, Department of Space, India. E-mail: utkarsh241293@gmail.com  
². Department of Avionics, Indian Institute of Space Science and Technology, Thiruvananthapuram, India. E-mail: csaha@ieee.org

10.6. Design Of A Gain Enhanced THz Bow-Tie Photoconductive Antenna (62)  
Jyothi AKB¹, Chinmoy Saha¹, Basudeb Ghosh¹, Rajeev Kini² and Vaisakh CP²  
¹. Department of Avionics, Indian Institute of Space Science and Technology, Thiruvananthapuram, India. E-mail: sulakhejyoti@gmail.com, csaha@ieee.org  
². Department of Physics, Indian Institute of Science Education and Research, Thiruvananthapuram, India. E-mail: rajeevkini@iisertvm.ac.in

10.7. Port Isolation Reduction Of A Dual Polarized Hemispherical Dielectric Resonator Antenna (63)  
Goffar Ali Sarkar, Biswarup Rana and Susanta Kumar Parul  
Department of Electronics and Telecommunication Engineering, Indian Institute of Engineering Science and Technology, Shibpur Howrah, West Bengal, India. E-mail: goffar.ali@gmail.com, biswaruprana@gmail.com, arkapv@yahoo.com
DECEMBER 17, SATURDAY

10.20 a.m to 11.00 a.m
INVITED TALK-8
Dr. Binoy G.S
VISLINK, UK

11.15 a.m to 12.00 p.m
INVITED TALK-9
Dr. Vikass Monebhurrun,
Centrale Supélec, France

12.05 p.m to 12.50 p.m
INVITED TALK-10
Dr. VPN Nampoori, CUSAT

VALEDICTORY FUNCTION